

For use in India only



Palbociclib Tablets 75 mg, 100 mg and 125 mg

Palborest[®] 75/100/125
पारबोरेस्ट ७५/१००/१२५

To be sold by retail on the prescription of Oncologist only

PRESCRIBING INFORMATION

- 1. GENERIC NAME**
Palbociclib Tablets 75 mg, 100 mg and 125 mg
- 2. QUALITATIVE AND QUANTITATIVE COMPOSITION**
Each Film Coated Tablet Contains
Palbociclib 75 mg
Colours: Titanium Dioxide IP
Ferric Oxide Red USP-NF
Ferric Oxide Yellow USP-NF
Each Film Coated Tablet Contains
Palbociclib 100 mg
Colours: Titanium Dioxide IP
Ferric Oxide Red USP-NF
Ferric Oxide Yellow USP-NF
Each Film Coated Tablet Contains
Palbociclib 125 mg
Colours: Titanium Dioxide IP
Ferric Oxide Red USP-NF
Ferric Oxide Yellow USP-NF

- 3. DOSAGE FORM AND STRENGTH**
Palbociclib is available as a 75 mg, 100 mg and 125 mg tablets
- 4. CLINICAL PARTICULARS**

4.1. Indications
Palbociclib is a kinase inhibitor indicated for the treatment of hormone receptor (HR) positive, human epidermal growth factor receptor 2 (HER2) – negative advanced or metastatic breast cancer in combination with fulvestrant in women with disease progression following endocrine therapy.
Palbociclib is a kinase inhibitor indicated in combination with Letrozole for the treatment of postmenopausal women with estrogen receptor (ER) positive, human epidermal growth factor receptor 2 (HER2)-negative advanced breast cancer as initial endocrine based therapy for their metastatic disease.

Palbociclib is indicated for the treatment of hormone receptor (HR)-positive, human epidermal growth factor 2 (HER2)- negative advanced or metastatic breast cancer in combination with aromatase inhibitor as initial endocrine-based therapy and with fulvestrant in patients who have received prior therapy for Male patients.

4.2. Posology and Method of Administration
Treatment with Palbociclib should be initiated and supervised by a physician experienced in the use of anticancer medicinal products.

Posology
The recommended dose is 125 mg of palbociclib once daily for 21 consecutive days followed by 7 days off treatment (Schedule 3/1) to comprise a complete cycle of 28 days. The treatment with Palbociclib should be continued as long as the patient is deriving clinical benefit from therapy or until unacceptable toxicity occurs.

When coadministered with palbociclib, the aromatase inhibitor should be administered according to the dose schedule reported in the Summary of Product Characteristics. Treatment of pre/perimenopausal women with the combination of palbociclib plus an aromatase inhibitor should always be combined with an LHRH agonist.

When coadministered with palbociclib, the recommended dose of fulvestrant is 500 mg administered intramuscularly on Days 1, 15, 29, and once monthly thereafter. Please refer to the PI of fulvestrant. Prior to the start of treatment with the combination of palbociclib plus fulvestrant, and throughout its duration, pre/perimenopausal women should be treated with LHRH agonists according to local clinical practice.

Patients should be encouraged to take their dose at approximately the same time each day. If the patient vomits or misses a dose, an additional dose should not be taken that day. The next prescribed dose should be taken at the usual time.

Dose adjustments
Dose modification of palbociclib is recommended based on individual safety and tolerability.
Management of some adverse reactions may require temporary dose interruptions/delays, and/or dose reductions, or permanent discontinuation as per dose reduction schedules provided in Tables 1, 2, and 3.

Table 1. Palbociclib recommended dose modifications for adverse reactions

| Dose level | Dose |
|--|------------|
| Recommended dose | 125 mg/day |
| First dose reduction | 100 mg/day |
| Second dose reduction | 75 mg/day* |
| * If further dose reduction below 75 mg/day is required, discontinue the treatment | |

Complete blood count should be monitored prior to the start of Palbociclib therapy and at the beginning of each cycle, as well as on Day 15 of the first 2 cycles, and as clinically indicated.

For patients who experience a maximum of Grade 1 or 2 neutropenia in the first 6 cycles, complete blood counts for subsequent cycles should be monitored every 3 months, prior to the beginning of a cycle and as clinically indicated.

Absolute neutrophil counts (ANC) of $\geq 1,000/\text{mm}^3$ and platelet counts of $\geq 50,000/\text{mm}^3$ are recommended to receive palbociclib.

Table 2. Palbociclib dose modification and management – Haematological toxicities

| CTCAE grade | Dose modifications |
|--|---|
| Grade 1 or 2 | No dose adjustment is required. |
| Grade 3 ^a | Day 1 of cycle: Withhold Palbociclib, until recovery to Grade ≤ 2 , and repeat complete blood count monitoring within 1 week. When recovered to Grade ≤ 2 , start the next cycle at the same dose. Day 15 of first 2 cycles: If Grade 3 on Day 15, continue Palbociclib at the current dose to complete cycle and repeat complete blood count on Day 22. If Grade 4 on Day 22, see Grade 4 dose modification guidelines below. Consider dose reduction in cases of prolonged (> 1 week) recovery from Grade 3 neutropenia or recurrent Grade 3 neutropenia on Day 1 of subsequent cycles. |
| Grade 3 ANC ^b ($< 1,000$ to $500/\text{mm}^3$) + Fever ≥ 38.5 °C and/or infection | At any time: Withhold Palbociclib until recovery to Grade ≤ 2 Resume at next lower dose. |
| Grade 4 ^c | At any time: Withhold Palbociclib until recovery to Grade ≤ 2 Resume at next lower dose. |
| Grading according to CTCAE 4.0. ANC=absolute neutrophil counts; CTCAE=Common Terminology Criteria for Adverse Events; LLN=lower limit of normal. a Table applies to all haematological adverse reactions except lymphopenia (unless associated with clinical events, e.g., opportunistic infections). b ANC: Grade 1: ANC $< 1,500/\text{mm}^3$; Grade 2: ANC $1,000$ - $< 1,500/\text{mm}^3$; Grade 3: ANC 500 - $< 1,000/\text{mm}^3$; Grade 4: ANC $< 500/\text{mm}^3$. | |

Table 3. Palbociclib dose modification and management – Non-haematological toxicities

| CTCAE grade | Dose modifications |
|---|---|
| Grade 1 or 2 | No dose adjustment is required. |
| Grade ≥ 3 non-haematological toxicity (if persisting despite medical treatment) | Withhold until symptoms resolve to: • Grade ≤ 1 ; • Grade ≤ 2 (if not considered a safety risk for the patient) Resume at the next lower dose. |
| Grading according to CTCAE 4.0. CTCAE=Common Terminology Criteria for Adverse Events. | |

Permanently discontinue Palbociclib in patients with severe interstitial lung disease (ILD)/pneumonitis.

Dose Modifications for Use with Strong CYP3A Inhibitors

Avoid concomitant use of strong CYP3A inhibitors and consider an alternative concomitant medication with no or minimal CYP3A inhibition. If patients must be coadministered a strong CYP3A inhibitor, reduce the Palbociclib dose to 75 mg once daily. If the strong inhibitor is discontinued, increase the Palbociclib dose (after 3 to 5 half-lives of the inhibitor) to the dose used prior to the initiation of the strong CYP3A inhibitor.

Special populations

Elderly

No dose adjustment of Palbociclib is necessary in patients ≥ 65 years of age.

Hepatic impairment

No dose adjustment of Palbociclib is required for patients with mild or moderate hepatic impairment (Child-Pugh classes A and B). For patients with severe hepatic impairment (Child-Pugh class C), the recommended dose of Palbociclib is 75 mg once daily on Schedule 3/1.

Renal impairment

No dose adjustment of Palbociclib is required for patients with mild, moderate or severe renal impairment (creatinine clearance [CrCl] ≥ 15 mL/min). Insufficient data are available in patients requiring haemodialysis to provide any dose adjustment recommendation in this patient population.

Paediatric population

The safety and efficacy of Palbociclib in children and adolescents < 18 years of age have not been established. No data are available.

Method of administration

Palbociclib is for oral use. The tablets may be taken with or without food. Palbociclib should not be taken with grapefruit or grapefruit juice. Palbociclib tablets should be swallowed whole (should not be chewed, crushed, or split prior to swallowing). No tablet should be ingested if it is broken, cracked, or otherwise not intact.

4.3. Contraindications

- Hypersensitivity to the active substance or to any of the excipients.
- Use of preparations containing St. John's Wort.

4.4. Special Warnings and Precautions for Use

Neutropenia
Neutropenia was the most frequently reported adverse reaction with an incidence of 83%. A Grade ≥ 3 decrease in neutrophil counts was reported in 66% of patients receiving Palbociclib plus letrozole and 66% of patients receiving Palbociclib plus fulvestrant. The median time to first episode of any grade neutropenia was 15 days and the median duration of Grade ≥ 3 neutropenia was 7 days.
Monitor complete blood counts prior to starting Palbociclib therapy and at the beginning of each cycle, as well as on Day 15 of the first 2 cycles, and as clinically indicated. Dose interruption, dose reduction, or delay in starting treatment cycles is recommended for patients who develop Grade 3 or 4 neutropenia.

Febrile neutropenia has been reported in 1.8% of patients exposed to Palbociclib across Studies 1 and 2. One death due to neutropenic sepsis was observed in Study 2. Physicians should inform patients to promptly report any episodes of fever.

Interstitial Lung Disease (ILD)/Pneumonitis

Severe, life-threatening, or fatal interstitial lung disease (ILD) and/or pneumonitis can occur in patients treated with cyclin-dependent kinase 4/6 (CDK4/6) inhibitors, including Palbociclib when taken in combination with endocrine therapy.

Additional cases of ILD/pneumonitis have been observed in the postmarketing setting, with fatalities reported.

Monitor patients for pulmonary symptoms indicative of ILD/pneumonitis (e.g. hypoxia, cough, dyspnea). In patients who have new or worsening respiratory symptoms and are suspected to have developed pneumonitis, interrupt Palbociclib immediately and evaluate the patient. Permanently discontinue Palbociclib in patients with severe ILD or pneumonitis.

5.3 Embryo-Fetal Toxicity

Based on findings from animal studies and its mechanism of action, Palbociclib can cause fetal harm when administered to a pregnant woman. In animal reproduction studies, administration of palbociclib to pregnant rats and rabbits during organogenesis resulted in embryo-fetal toxicity at maternal exposures that were ≥ 4 times the human clinical exposure based on area under the curve (AUC). Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment with Palbociclib and for at least 3 weeks after the last dose.

4.5. Drug Interactions

Palbociclib is primarily metabolized by CYP3A and sulfotransferase (SULT) enzyme SULT2A1. *In vivo*, palbociclib is a time-dependent inhibitor of CYP3A.

Agents That May Increase Palbociclib Plasma Concentrations

Effect of CYP3A Inhibitors
Coadministration of a strong CYP3A inhibitor (itraconazole) increased the plasma exposure of palbociclib in healthy subjects by 87%. Avoid concomitant use of strong CYP3A inhibitors (e.g., clarithromycin, indinavir, itraconazole, ketconazole, lopinavir/ritonavir, nefazodone, nelfinavir, posaconazole, ritonavir, saquinavir, telaprevir, telithromycin, and voriconazole). Avoid grapefruit or grapefruit juice during Palbociclib treatment. If coadministration of Palbociclib with a strong CYP3A inhibitor cannot be avoided, reduce the dose of Palbociclib.

Agents That May Decrease Palbociclib Plasma Concentrations

Effect of CYP3A Inducers
Coadministration of a strong CYP3A inducer (rifampin) decreased the plasma exposure of palbociclib in healthy subjects by 85%. Avoid concomitant use of strong CYP3A inducers (e.g., phenytoin, rifampin, carbamazepine, ezulatumid, and St John's Wort).

Drugs That May Have Their Plasma Concentrations Altered by Palbociclib

Coadministration of midazolam with multiple doses of Palbociclib increased the midazolam plasma exposure by 61%, in healthy subjects, compared to administration of midazolam alone. The dose of the sensitive CYP3A substrate with a narrow therapeutic index (e.g., alfentanil, cyclosporine, diltiazem, ergotamine, ergometrine, fentanyl, pimeozide, quinine, sirolimus, and tacrolimus) may need to be reduced, as Palbociclib may increase its exposure.

4.6. Use in Special Populations (such as pregnant women, lactating women, paediatric patients, geriatric patients etc.)

Paediatrics

Based on findings from animal studies and its mechanism of action, Palbociclib can cause fetal harm when administered to a pregnant woman.

There are no available data in pregnant women to inform the drug-associated risk. In animal reproduction studies, administration of palbociclib to pregnant rats and rabbits during organogenesis resulted in embryo-fetal toxicity at maternal exposures that were ≥ 4 times the human clinical exposure based on AUC (see Data). Advise pregnant women of the potential risk to a fetus.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. The estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2%–4% and 15%–20%, respectively.

Animal Data

In a fertility and early embryonic development study in female rats, palbociclib was administered orally for 15 days before mating through to Day 7 of pregnancy, which did not cause embryo toxicity at doses up to 300 mg/kg/day with maternal systemic exposures approximately 4 times the human exposure (AUC) at the recommended dose.

In embryo-fetal development studies in rats and rabbits, pregnant animals received oral doses of palbociclib up to 300 mg/kg/day and 20 mg/kg/day, respectively, during the period of organogenesis. The maternally toxic dose of 300 mg/kg/day was fetotoxic in rats, resulting in reduced fetal body weights. At doses ≥ 100 mg/kg/day in rats, there was an increased incidence of a skeletal variation (increased incidence of a rib present at the seventh cervical vertebra). At the maternally toxic dose of 20 mg/kg/day in rabbits, there was an increased incidence of skeletal variations, including small phalanges in the forelimb. At 300 mg/kg/day in rats and 20 mg/kg/day in rabbits, the maternal systemic exposures were approximately 4 and 9 times the human exposure (AUC) at the recommended dose, respectively.

CDK4/6 double knockout mice have been reported to die in late stages of fetal development (gestation Day 14.5 until birth) due to severe anaemia. However, knockout mouse data may not be predictive of effects in humans due to differences in degree of target inhibition.

Lactation

There is no information regarding the presence of palbociclib in human milk, its effects on milk production, or the breastfed infant. Because of the potential for serious adverse reactions in breastfed infants from Palbociclib, advise a lactating woman not to breastfeed during treatment with Palbociclib and for 3 weeks after the last dose.

Females and Males of Reproductive Potential

Pregnancy Testing

Based on animal studies, Palbociclib can cause fetal harm when administered to a pregnant woman. Females of reproductive potential should have a pregnancy test prior to starting treatment with Palbociclib.

Contraception

Females
Palbociclib can cause fetal harm when administered to a pregnant woman. Advise females of reproductive potential to use effective contraception during treatment with Palbociclib and for at least 3 weeks after the last dose.

Males

Because of the potential for genotoxicity, advise male patients with female partners of reproductive potential to use effective contraception during treatment with Palbociclib and for 3 months after the last dose.

Infertility

Males

Based on animal studies, Palbociclib may impair fertility in males of reproductive potential.

Paediatric use

The safety and efficacy of Palbociclib in pediatric patients have not been studied. Altered glucose metabolism (glycosuria, hyperglycaemia, decreased insulin) associated with changes in the pancreas (islet cell vacuolation), eye (cataracts, lens degeneration), kidney (tubule vacuolation, chronic progressive nephropathy) and adipose tissue (atrophy) were identified in a 27-week repeat-dose toxicology study in rats that were immature at the beginning of the studies and were most prevalent in males at oral palbociclib doses ≥ 30 mg/kg/day (approximately 11 times the adult human exposure [AUC] at the recommended dose). Some of these findings (glycosuria/hyperglycaemia, pancreatic islet cell vacuolation, and kidney tubule vacuolation) were present with lower incidence and severity in a 15-week repeat-dose toxicology study in immature rats. Altered glucose metabolism or associated changes in the pancreas, eye, kidney and adipose tissue were not identified in a 27-week repeat-dose toxicology study in rats that were mature at the beginning of the study and in dogs in repeat-dose toxicology studies up to 39 weeks duration. Toxicities in teeth independent of altered glucose metabolism were observed in rats. Administration of 100 mg/kg palbociclib for 27 weeks (approximately 15 times the adult human exposure [AUC] at the recommended dose) resulted in abnormalities in growing incisor teeth (discoloured, ameloblast degeneration/necrosis, mononuclear cell infiltrate). Other toxicities of potential concern to pediatric patients have not been evaluated in juvenile animals.

Geriatric Use

No overall differences in safety or effectiveness of Palbociclib were observed between these patients and younger patients.

Hepatic Impairment

No dose adjustment is required in patients with mild or moderate hepatic impairment (Child-Pugh classes A and B). For patients with severe hepatic impairment (Child-Pugh class C), the recommended dose of Palbociclib is 75 mg once daily for 21 consecutive days followed by 7 days off treatment to comprise a complete cycle of 28 days.

Review the Full Prescribing Information for the aromatase inhibitor or fulvestrant for dose modifications related to hepatic impairment.

Renal Impairment

No dose adjustment is required in patients with mild, moderate, or severe renal impairment (CrCl > 15 mL/min). The pharmacokinetics of palbociclib have not been studied in patients requiring hemodialysis.

4.7. Effects on Ability to Drive and Use Machines

Palbociclib has minor influence on the ability to drive and use machines. However, Palbociclib may cause fatigue and patients should exercise caution when driving or using machines.

4.8. Undesirable Effects

The adverse reactions are listed by system organ class and frequency category. Frequency categories are defined as: very common ($\geq 1/10$), common ($\geq 1/100$ to $< 1/10$), and uncommon ($\geq 1/1,000$ to $< 1/100$). Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness.

Table 4. Adverse reactions based on pooled dataset from 3 randomised studies (N=872)

| System Organ Class Frequency Preferred term ^a | All Grades n (%) | Grade 3 n (%) | Grade 4 n (%) |
|---|------------------|---------------|---------------|
| Infections and infestations | | | |
| <i>Very common</i> | | | |
| Infections ^b | | 49 (5.6) | 8 (0.9) |
| 516 (59.2) | | | |
| Blood and lymphatic system disorders | | | |
| <i>Very common</i> | | | |
| Neutropenia ^c | 716 (82.1) | 500 (57.3) | 97 (11.1) |
| 424 (48.6) | | 254 (29.1) | 7 (0.8) |
| Leukopenia ^d | | | |
| Anaemia ^e | 258 (29.6) | 45 (5.2) | 2 (0.2) |
| Thrombocytopenia ^f | 194 (22.2) | 16 (1.8) | 4 (0.5) |
| <i>Common</i> | | | |
| Febrile neutropenia | 12 (1.4) | 10 (1.1) | 2 (0.2) |
| Metabolism and nutrition disorders | | | |
| <i>Very common</i> | | | |
| Decreased appetite | 152 (17.4) | 8 (0.9) | 0 (0.0) |
| Nervous system disorders | | | |
| <i>Common</i> | | | |
| Dysgeusia | 79 (9.1) | 0 (0.0) | 0 (0.0) |
| Eye disorders | | | |
| <i>Common</i> | | | |
| Vision blurred | 48 (5.5) | 1 (0.1) | 0 (0.0) |
| Lacrimation increased | 59 (6.8) | 0 (0.0) | 0 (0.0) |
| Dry eye | 36 (4.1) | 0 (0.0) | 0 (0.0) |
| Respiratory, thoracic and mediastinal disorders | | | |
| <i>Common</i> | | | |
| Epistaxis | 77 (8.8) | 0 (0.0) | 0 (0.0) |
| ILD/pneumonitis ^g | 12 (1.4) | 1 (0.1) | 0 (0.0) |
| Gastrointestinal disorders | | | |
| <i>Very common</i> | | | |
| Stomatitis ^h | 264 (30.3) | 8 (0.9) | 0 (0.0) |
| Nausea | 314 (36.0) | 5 (0.6) | 0 (0.0) |
| Diarrhoea | 238 (27.3) | 9 (1.0) | 0 (0.0) |
| Vomiting | 165 (18.9) | 6 (0.7) | 0 (0.0) |
| Skin and subcutaneous tissue disorders | | | |
| <i>Very common</i> | | | |
| Rash ⁱ | 158 (18.1) | 7 (0.8) | 0 (0.0) |
| Alopecia | 234 (26.8) | N/A | N/A |
| Dry skin | 93 (10.7) | 0 (0.0) | 0 (0.0) |
| <i>Uncommon</i> | | | |
| Cutaneous lupus erythematosus ^j | 1 (0.1) | 0 (0.0) | 0 (0.0) |
| General disorders and administration site conditions | | | |
| <i>Very common</i> | | | |
| Fatigue | 362 (41.5) | 23 (2.6) | 2 (0.2) |
| Asthenia | 118 (13.5) | 14 (1.6) | 1 (0.1) |
| Pyrexia | 115 (13.2) | 1 (0.1) | 0 (0.0) |
| Investigations | | | |
| <i>Very common</i> | | | |
| ALT increased | 92 (10.6) | 18 (2.1) | 1 (0.1) |
| AST increased | 99 (11.4) | 25 (2.9) | 0 (0.0) |

ALT=alanine aminotransferase; AST=aspartate aminotransferase; ILD=interstitial lung disease; N=n-number of patients; N/A=not applicable.

^a Adverse Drug Reaction (ADR) identified post-marketing. A Preferred Terms (PTs) are listed according to MedDRA 17.1.

^b Infections includes all PTs that are part of the System Organ Class Infections and infestations.

^c Neutropenia includes the following PTs: Neutropenia, Neutrophil count decreased.

^d Leukopenia includes the following PTs: Leukopenia, White blood cell count decreased.

^e Anaemia includes the following PTs: Anaemia, Haemoglobin decreased, Haematocrit decreased.

^f Thrombocytopenia includes the following PTs: Thrombocytopenia, Platelet count decreased.

^g Stomatitis includes the following PTs: Aphthous stomatitis, Cheilitis, Glossitis, Glossodynia, Mouth ulceration, Mucosal inflammation, Oral pain, Oropharyngeal discomfort, Oropharyngeal pain, Stomatitis.

^h Rash includes the following PTs: Rash, Rash maculo-papular, Rash pruritic, Rash erythematous, Rash papular, Dermatitis, Dermatitis acneiform, Toxic skin eruption.

ⁱ ILD/pneumonitis includes any reported PTs that are part of the Standardised MedDRA Query Interstitial Lung Disease (narrow).

Table 5. Laboratory abnormalities observed in pooled dataset from 3 randomised studies (N=872)

| Laboratory abnormalities | Palbociclib plus letrozole or fulvestrant | | | Comparator arms ^a | | |
|--------------------------|---|-----------|-----------|------------------------------|-----------|-----------|
| | All grades % | Grade 3 % | Grade 4 % | All grades % | Grade 3 % | Grade 4 % |
| WBC decreased | 97.4 | 41.8 | 1.0 | 26.2 | 0.2 | 0.2 |
| Neutrophils decreased | 95.6 | 57.5 | 11.7 | 17.0 | 0.9 | 0.6 |
| Anaemia | 80.1 | 5.6 | N/A | 42.1 | 2.3 | N/A |
| Platelets decreased | 65.2 | 1.8 | 0.5 | 13.2 | 0.2 | 0.0 |
| AST increased | 55.5 | 3.9 | 0.0 | 43.3 | 2.1 | 0.0 |
| ALT increased | 46.1 | 2.5 | 0.1 | 33.2 | 0.4 | 0.0 |

WBC=white blood cells; AST=aspartate aminotransferase; ALT=alanine aminotransferase; N= number of patients; N/A=not applicable.

Note: Laboratory results are graded according to the NCI CTCAE version 4.0 severity grade.

^a letrozole or fulvestrant

Description of selected adverse reactions

Overall, neutropenia of any grade was reported in 716 (82.1%) patients receiving Palbociclib regardless of the combination, with Grade 3 neutropenia being reported in 500 (57.3%) patients, and Grade 4 neutropenia being reported in 97 (11.1%) patients.

The median time to first episode of any grade neutropenia was 15 days (12-700 days) and the median duration of Grade ≥ 3 neutropenia was 7 days across 3 randomised clinical studies.

Febrile neutropenia has been reported in 0.9% of patients receiving Palbociclib in combination with fulvestrant and in 1.7% of patients receiving palbociclib in combination with letrozole. Febrile neutropenia has been reported in about 2% of patients exposed to Palbociclib across the overall clinical programme.

Reporting of suspected adverse reactions

Reporting of suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. To report Suspected Adverse Reactions, contact MSN Laboratories Private Limited at pharmacovigilance@msnlabs.com or through company website www.msnlabs.com >Contact us->Medical Enquiry. To report a side effect. You can also report side effects directly via the National Pharmacovigilance Programme of India by calling on 1800 180 3024 or you can report to MSN Labs on +91-40-38265267 (Direct line); +91 7331134745 (WhatsApp). By reporting side effects, you can help provide more information on the safety of this product.

4.9. Overdose

In the event of a palbociclib overdose, both gastrointestinal (e.g., nausea, vomiting) and haematological (e.g., neutropenia) toxicity may occur and general supportive care should be provided.

5. PHARMACOLOGICAL PROPERTIES

5.1. Mechanism of action

Palbociclib is an inhibitor of cyclin-dependent kinases (CDK) 4 and 6. Cyclin D1 and CDK4/6 are downstream of signaling pathways which lead to cellular proliferation. *In vivo*, palbociclib reduced cellular proliferation of estrogen receptor