

Dolasetron

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Brand name: Anzemet®

IUPAC: (3R)-10-oxo-8-azatricyclo[5.3.1.0^{3,8}]undec-5-yl 1H-indole-3-carboxylate

FDA approval: Yes

[Manufacturer Link](#)

Usage:

Dolasetron mesylate (Anzemet®) is used to prevent nausea and vomiting associated with cytotoxic effects of chemotherapy. Dolasetron is administered in pill form.¹ In December 2010, the U.S. FDA blocked the use of the injected (intravenous) form of the drug for the prevention of nausea due to chemotherapy.²

- ¹Anzemet.. Prescribing Information. Aventis Pharmaceuticals. September, 2016. [<http://www.anzemet.com>]
- ²Anzemet (dolasetron mesylate): Drug Safety Communication - Reports of Abnormal Heart Rhythms. Published 12-17-2010 by the U.S. Food and Drug Administration (FDA). [<http://www.fda.gov/Safety/MedWatch/SafetyInformation/SafetyAlertsforHumanMedicalProducts/ucm237341.htm>]

Mechanism:

Dolasetron works by blocking the reception of serotonin at 5-HT₃ receptors. When these receptors are bound by serotonin, they induce nausea and the vomiting reflex.

The structure below shows the 3D conformer Dolasetron.

Side effects:

The most common side effects associated with the use of Anzemet® during chemotherapy regimens are headache, fatigue and diarrhea. The intravenous version of the drug was associated with abnormal heart rhythms.