

Granisetron

Printed from <https://www.cancerquest.org/patients/drug-reference/granisetron> on 03/17/2025



Brand name: Sancuso®

IUPAC: 1-methyl-N-(9-methyl-9-azabicyclo[3.3.1]nonan-7-yl)indazole-3-carboxamide

FDA approval: Yes

[Manufacturer Link](#)

Usage:

Granisetron is used to prevent nausea and vomiting associated with cytotoxic effects of chemotherapy. Granisetron is administered in pill form or as an injection. [1](#)

- [1](http://www.sancuso.com/patient/understanding-cinv/index.html)Sancuso. 2016. <http://www.sancuso.com/patient/understanding-cinv/index.html>

Mechanism:

Granisetron is a 5-HT₃ receptor antagonist, which is used to inhibit nauseous responses caused by chemotherapy. It has a strong affinity for this receptor and little for any other type and by blocking this receptor, granisetron prevents the vomiting reflex. [1](#)

The diagram below shows the 3D molecular structure for Granisetron.



- [1](https://medlineplus.gov/druginfo/meds/a601211.html)Granisetron. MedlinePlus. <https://medlineplus.gov/druginfo/meds/a601211.html>

Side effects:

The most common side effects associated with the use of Granisetron include headache, stomach pain, heartburn, constipation and trouble sleeping. [1](#)

- [1](https://medlineplus.gov/druginfo/meds/a601211.html)Granisetron. MedlinePlus. <https://medlineplus.gov/druginfo/meds/a601211.html>