Ondansetron

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Brand name: Zofran®

IUPAC: 9-methyl-3-[(2-methylimidazol-1-yl)methyl]-2,3-dihydro-1H-carbazol-4-one

FDA approval: Yes Manufacturer Link

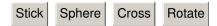
Usage:

Ondansetron (Zofran®) is used to the prevent nausea and vomiting associated withcytotoxic effects of chemotherapy and some radiation schedules. Ondansetron is administered in pill form, as an oral solution or as in injection1

• 1Odansetron. MedlinePlus. 2016. https://medlineplus.gov/druginfo/meds/a601209.html

Mechanism:

Odansetron (also called Ratio-ondansetron) works by blocking the reception of serotonin at 5-HT3 receptors which initiate the vomiting reflex that is often associated with chemotherapy treatment.



The diagram above shows the 3D molecular structure of Ondansetron.

• 1Odansetron. MedlinePlus. 2016. https://medlineplus.gov/druginfo/meds/a601209.html

Side effects:

Headache, constipation or diarrhea and weakness are the most common adverse effects associated with the use of Zofran® though it is not clear if these effects are properties of this drug or the chemotherapy drugs that are taken concurrently (at the same time).1

1Odansetron. MedlinePlus. 2016. https://medlineplus.gov/druginfo/meds/a601209.html