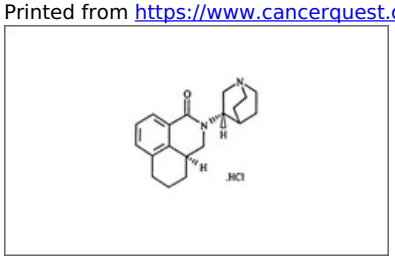
Palonosetron

Printed from https://www.cancerquest.org/patients/drug-reference/palonosetron on 11/18/2026



Brand name: Aloxi®
IUPAC: 3aR)-2-[(3S)-1-azabicyclo[2.2.2]oct-3-yl]-2,3,3a, 4,5,6-hexahydro-1H-benz[de]isoquinolin-1-one
FDA approval: Yes
Manufacturer Link
Usage:

Palonosetron (Aloxi®) was approved by the FDA in 2003 to help prevent the nausea and vomiting sometimes caused by chemotherapy.1

1 Palonosetron. MedlinePlus. 2016. https://medlineplus.gov/druginfo/meds/a610002.html

Mechanism:

Palonosetron is a 5-HT3 receptor antagonist. It has a strong affinity for this receptor and little for any other type. Blocking this receptor prevents the activation of the vomiting reflex, as it works by blocking serotonin.1

Below is the molecular structure of the 3D conformer Polonosetron.

Stick Sphere Rotate

1 Palonosetron. MedlinePlus. 2016. https://medlineplus.gov/druginfo/meds/a610002.html

Side effects:

Common side effects include: headache, fatigue, diarrhea, dizziness, abdominal pain, trouble sleeping and constipation.1

1 Palonosetron. MedlinePlus. 2016. https://medlineplus.gov/druginfo/meds/a610002.html