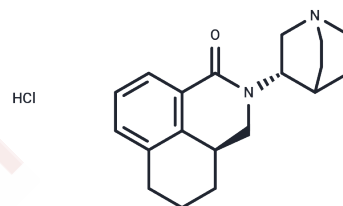


Palonosetron hydrochloride

Chemical Properties

CAS No. :	135729-62-3
Formula:	C ₁₉ H ₂₄ N ₂ O·HCl
Molecular Weight:	332.87
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Palonosetron hydrochloride (RS 25259) is a 5-HT ₃ antagonist used in the prevention and treatment of chemotherapy-induced nausea and vomiting.
Targets(IC50)	Anti-infection, 5-HT Receptor
In vivo	Palonosetron exhibits a longer plasma half-life of approximately 40 hours compared to other antagonists in its class (ondansetron, 4 hours; tropisetron, 7.3 hours; dolasetron, 7.5 hours; ranisetron, 8.9 hours). Additionally, it demonstrates a hundredfold greater binding affinity to the 5-HT ₃ receptor, with a pK _i of 10.5, which is significantly higher than that of granisetron (pK _i 8.91), tropisetron (pK _i 8.81), ondansetron (pK _i 8.39), and dolasetron (pK _i 7.6).

Solubility Information

Solubility	H ₂ O: 100 mg/mL (300.42 mM), Sonication is recommended. DMSO: 3.33 mg/mL (10 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0042 mL	15.0209 mL	30.0418 mL
5 mM	0.6008 mL	3.0042 mL	6.0084 mL
10 mM	0.3004 mL	1.5021 mL	3.0042 mL
50 mM	0.0601 mL	0.3004 mL	0.6008 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wong EH, et al. Br J Pharmacol, 1995, 114(4), 851-859.

Gralla R, et al. Ann Oncol, 2003, 14(10), 1570-1577.

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