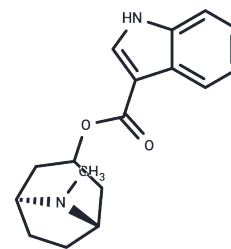


Tropisetron

Chemical Properties

CAS No. :	89565-68-4
Formula:	C ₁₇ H ₂₀ N ₂ O ₂
Molecular Weight:	284.35
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	Tropisetron (ICS 205-930) is an $\alpha 7$ -nicotinic receptor agonist and 5-HT ₃ receptor antagonist with K _i s of 6.9 nM and 5.3 nM, respectively.
Targets(IC50)	NF- κ B,5-HT Receptor,AChR,DNA/RNA Synthesis,JAK,p38 MAPK
In vivo	Tolbisetron induces anti-inflammatory effects in experimental models of cisplatin-induced nephrotoxicity that are completely independent of the 5-HT ₃ receptor. Tropisetron can improve ischemic brain injury by reducing TNF- α levels and myeloperoxidase activity[3].

Solubility Information

Solubility	H ₂ O: 50 mg/mL (175.84 mM),Sonication is recommended. DMSO: 65 mg/mL (228.59 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.03 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5168 mL	17.584 mL	35.1679 mL
5 mM	0.7034 mL	3.5168 mL	7.0336 mL
10 mM	0.3517 mL	1.7584 mL	3.5168 mL
50 mM	0.0703 mL	0.3517 mL	0.7034 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

- Macor JE, et al. *Bioorg Med Chem Lett*. 2001, 11(3):319-21.
Vega Lde L, et al. *Biochem Pharmacol*. 2005, 70(3):369-80.
Zirak MR, et al. *Eur J Pharmacol*. 2014, 738:222-9.

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