
Product Data Sheet

Product Name: Dolasetron Mesylate (MDL-73147EF)

Cat. No.: GC30413

Chemical Properties

Cas. No. 115956-13-3

SMILES O=C(C1=CNC2=C1C=CC=C2)O[C@@H]3C[C@@](CC4C5)([H])[N@](CC4=O)[C@@]5([H])C3.O=S(C)(O)=O

Formula	C ₂₀ H ₂₄ N ₂ O ₆ S	M.Wt	420.48
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Solubility	Soluble in DMSO	Storage	Store at -20°C
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General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Dolasetron is an antagonist of the serotonin (5-HT) receptor subtype 5-HT₃ (K_i = 20 nM).¹ It is selective for 5-HT₃ receptors over 5-HT_{1A}, 5-HT_{1B}, 5-HT₂, dopamine D₂, α₁-, α₂-, β-adrenergic, M₁₋₅ muscarinic acetylcholine, and neurokinin-1 (NK₁) receptors (IC₅₀s = >10 μM for all).² Dolasetron inhibits 5-HT-induced membrane currents in NG 108-15 cells (IC₅₀ = 3.8 nM).¹ It increases the latency to emesis and reduces the number of vomiting and retching episodes induced by cisplatin in ferrets when administered at doses of 0.5 or 2 mg/kg.² Formulations containing dolasetron have been used in the prevention of postoperative or chemotherapy-induced nausea.

1. Beoijinga, P.H., Galvan, M., Baron, B.M., et al. Characterization of the novel 5-HT₃ antagonists MDL 73147EF (dolasetron mesilate) and MDL 74156 in NG108-15 neuroblastoma x glioma cells. *Eur. J. Pharmacol.* 219(1)9-13(1992)
 2. Miller, R.C., Galvan, M., Gittos, M.W., et al. Pharmacological properties of dolasetron, a potent and selective antagonist at 5-HT₃ receptors. *Drug Develop. Res.* 28(1)87-93(1993)

Caution: Product has not been fully validated for medical applications. For research use only.

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