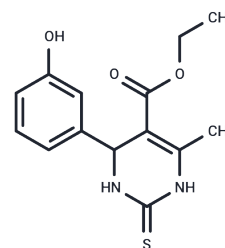


Monastrol

Chemical Properties

CAS No. :	329689-23-8
Formula:	C ₁₄ H ₁₆ N ₂ O ₃ S
Molecular Weight:	292.35
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Monastrol ((±)-Monastrol) is a potent and cell-permeable inhibitor of the mitotic kinesin Eg5.
Targets(IC50)	Apoptosis,Kinesin

Solubility Information

Solubility	DMSO: 55 mg/mL (188.13 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	3.4206 mL	17.1028 mL	34.2056 mL
5 mM	0.6841 mL	3.4206 mL	6.8411 mL
10 mM	0.3421 mL	1.7103 mL	3.4206 mL
50 mM	0.0684 mL	0.3421 mL	0.6841 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.

Reference

Cochran JC, et al. Monastrol inhibition of the mitotic kinesin Eg5. J BiolChem. 2005 Apr 1;280(13):12658-67.
Marques LA, et al. Antiproliferative activity of monastrol in human adenocarcinoma (MCF-7) and non-tumor (HB4a) breast cells. Naunyn Schmiedebergs Arch Pharmacol. 2016 Dec;389(12):1279-1288.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481