Data Sheet (Cat.No.T13298)

TargetMol

Verubulin hydrochloride

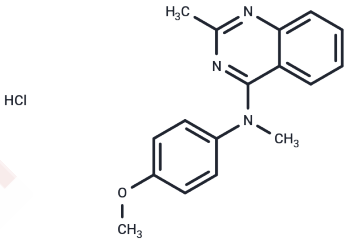
Chemical Properties

CAS No. : 917369-31-4

Formula: C17H18ClN3O

Molecular Weight: 315.8

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	Verubulin hydrochloride (MPC-6827 hydrochloride) is a blood-brain barrier permeable microtubule-disrupting agent with potent and broad-spectrum cytotoxic activities and significant anticancer efficacy in human MX-1 breast cancer and various mouse xenograft cancer models.
Targets(IC50)	Microtubule Associated

Solubility Information

Solubility	DMSO: 22.5 mg/mL (71.25 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 (6.33 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1666 mL	15.8328 mL	31.6656 mL
5 mM	0.6333 mL	3.1666 mL	6.3331 mL
10 mM	0.3167 mL	1.5833 mL	3.1666 mL
50 mM	0.0633 mL	0.3167 mL	0.6333 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

Kasibhatla S, et al. MPC-6827: a small-molecule inhibitor of microtubule formation that is not a substrate for multidrug resistance pumps. Cancer Res. 2007 Jun 15;67(12):5865-71.

Sirisoma N, et al. Discovery of N-(4-methoxyphenyl)-N,2-dimethylquinazolin-4-amine, a potent apoptosis inducer and efficacious anticancer agent with high blood brain barrier penetration. J Med Chem. 2009 Apr 23;52(8):2341-51.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481