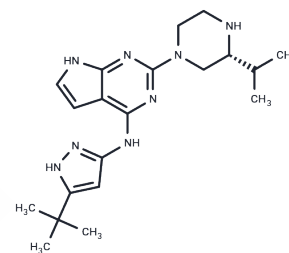


Spastazoline

Chemical Properties

CAS No. :	2351882-11-4
Formula:	C ₂₀ H ₃₀ N ₈
Molecular Weight:	382.51
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	Spastazoline is a potent and selective inhibitor of spastin(Human spastin with IC ₅₀ of 99 nM).
Targets(IC ₅₀)	Others, Microtubule Associated

Solubility Information

Solubility	DMSO: 95 mg/mL (248.36 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: 5 mg/mL (13.07 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	2.6143 mL	13.0716 mL	26.1431 mL
5 mM	0.5229 mL	2.6143 mL	5.2286 mL
10 mM	0.2614 mL	1.3072 mL	2.6143 mL
50 mM	0.0523 mL	0.2614 mL	0.5229 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

Cupido T, et al. Designing a chemical inhibitor for the AAA protein spastin using active site mutations. Nat Chem Biol. 2019 Feb 18.

Pisa R , Cupido T , Steinman J B , et al. Analyzing Resistance to Design Selective Chemical Inhibitors for AAA Proteins[J]. Cell Chemical Biology, 2019, 26(9).

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