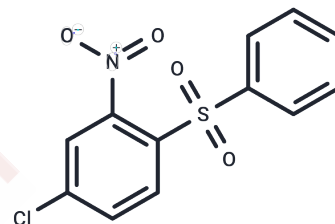


BTB-1

## Chemical Properties

CAS No. : 86030-08-2  
 Formula: C<sub>12</sub>H<sub>8</sub>ClNO<sub>4</sub>S  
 Molecular Weight: 297.71  
 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	BTB-1 (NSC156750) is a novel small molecule inhibitor of the mitotic motor protein Kif18A.
Targets(IC50)	Microtubule Associated,Kinesin

## Solubility Information

Solubility	Ethanol: 20 mM,Sonication is recommended. DMSO: 45 mg/mL (151.15 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 (6.72 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	3.359 mL	16.7949 mL	33.5897 mL
5 mM	0.6718 mL	3.359 mL	6.7179 mL
10 mM	0.3359 mL	1.6795 mL	3.359 mL
50 mM	0.0672 mL	0.3359 mL	0.6718 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

Catarinella M., et al. BTB-1: a small molecule inhibitor of the mitotic motor protein Kif18A. *Angew Chem Int Ed Engl.* 2009;48(48):9072-6.

Braun J., et al. Synthesis and biological evaluation of optimized inhibitors of the mitotic kinesin Kif18A. *ACS Chem Biol.* 2015 Feb 20;10(2):554-60.

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