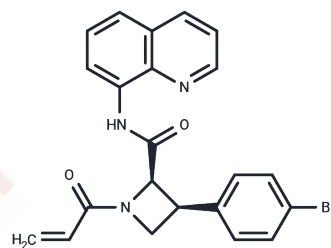


MY-1B

## Chemical Properties

CAS No. : 2929308-79-0  
 Formula: C<sub>22</sub>H<sub>18</sub>BrN<sub>3</sub>O<sub>2</sub>  
 Molecular Weight: 436.3  
 Storage: Keep away from moisture  
 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	MY-1B is a nitrogen-containing substituted butenamide stereoprobe, capable of blocking stereoselective enrichment of NSUN2, specifically binding to NSUN2 at C271.
Targets(IC50)	Others,DNA Methyltransferase
In vitro	Methods: The binding of NSUN2_C271 was observed in the human prostate cancer cell line 22Rv1 treated with 5 or 20 μM MY-1B (3 hours). Results: Almost complete binding of NSUN2_C271 (>90%) was observed in the human prostate cancer cell line 22Rv1. [1] The Kinact/Ki value of MY-1B (2.5-20 μM) against recombinant NSUN2 methyltransferase activity at different pre-incubation times and concentrations was 67±15 M. [1]

## Solubility Information

Solubility	DMSO: 80 mg/mL (183.36 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: 3.3 mg/mL (7.56 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.292 mL	11.460 mL	22.920 mL
5 mM	0.4584 mL	2.292 mL	4.584 mL
10 mM	0.2292 mL	1.146 mL	2.292 mL
50 mM	0.0458 mL	0.2292 mL	0.4584 mL

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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

Tao Y, et al. Chemical Proteomic Discovery of Isozyme-Selective Covalent Inhibitors of the RNA Methyltransferase NSUN2. *Angew Chem Int Ed Engl.* 2023 Dec 18;62(51):e202311924.

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