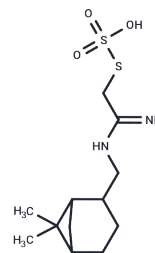


NSC 194308

## Chemical Properties

CAS No. :	90379-42-3
Formula:	C <sub>12</sub> H <sub>22</sub> N <sub>2</sub> O <sub>3</sub> S <sub>2</sub>
Molecular Weight:	306.45
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	NSC 194308 specifically enhances binding of the U2AF2 subunit to pre-mRNA, capturing early spliceosome assembly and killing leukaemia cell lines harbouring spliceosome mutations. It is applicable for studying pre-mRNA splicing dysregulation.
Targets(IC50)	DNA/RNA Synthesis

## Solubility Information

Solubility	DMSO: ≥ 40 mg/mL, 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	3.2632 mL	16.3159 mL	32.6318 mL
5 mM	0.6526 mL	3.2632 mL	6.5264 mL
10 mM	0.3263 mL	1.6316 mL	3.2632 mL
50 mM	0.0653 mL	0.3263 mL	0.6526 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

- Rakesh Chatrikhi, et al. A synthetic small molecule stalls pre-mRNA splicing by promoting an early-stage U2AF2-RNA complex. *Cell Chem Biol.* 2021 Aug 19;28(8):1145-1157.e6.
- Riccardo Rozza, et al. Assessing the Binding Mode of a Splicing Modulator Stimulating Pre-mRNA Binding to the Plastic U2AF2 Splicing Factor. *J Chem Inf Model.* 2023 Dec 11;63(23):7508-7517.

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