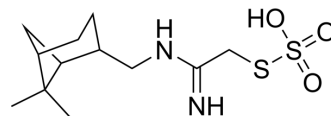


## NSC 194308

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-153736   |
| CAS No.:           | 90379-42-3  |
| Molecular Formula: | C <sub>12</sub> H <sub>22</sub> N <sub>2</sub> O <sub>3</sub> S <sub>2</sub>              |
| Molecular Weight:  | 306.44  |
| Target:            | Others  |
| Pathway:           | Others  |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



## BIOLOGICAL ACTIVITY

### Description

NSC 194308, a U2AF2-RNA complexes enhancer, increases association of the U2AF1-U2AF2-SF1-splice site RNA complex by binding a site between the U2AF2 RNA recognition motifs (RRM1 and RRM2). NSC 194308 inhibits pre-mRNA splicing by stalling spliceosome assembly at the point where U2AF helps recruit U2 snRNP to the branchpoint. NSC 194308 enhances the binding of pre-mRNA to U2AF2, selectively triggering cell death in leukemia cell lines containing spliceosome mutations [1].

## REFERENCES

- [1]. 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.
- [2]. 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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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