

TS-24

## Chemical Properties

CAS No. : 1563260-97-8

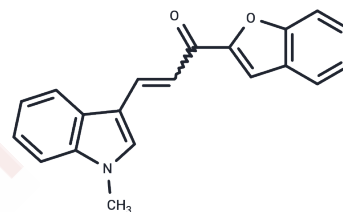
Formula: C<sub>20</sub>H<sub>15</sub>NO<sub>2</sub>

Molecular Weight: 301.34

Store at low temperature

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	TS-24 is an inhibitor of the cysteine protease histatin S (CTSS). TS-24 promotes BRCA1-mediated apoptosis and shows radiosensitization in a TNBC xenograft mouse model.
Targets(IC50)	Apoptosis, Protease, Cysteine Protease
In vitro	In MDA-MB-231 cells, TS-24 (0-10 μM; 24 hours) can inhibit cell migration[1].

## Solubility Information

Solubility	DMSO: 30 mg/mL (99.56 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3185 mL	16.5926 mL	33.1851 mL
5 mM	0.6637 mL	3.3185 mL	6.637 mL
10 mM	0.3319 mL	1.6593 mL	3.3185 mL
50 mM	0.0664 mL	0.3319 mL	0.6637 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

Choi E, et al., Radiosensitizing effect of a novel CTSS inhibitor by enhancing BRCA1 protein stability in triple-negative breast cancer cells. Cancer Sci. 2024 Apr 13.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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