

Ebselen derivative 1

Chemical Properties

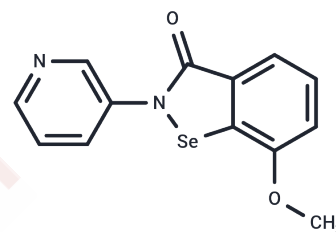
CAS No. : 3030492-59-9

Formula: C₁₃H₁₀N₂O₂Se

Molecular Weight: 305.19

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	Ebselen derivative 1 (Compound 19), an orally active glutathione peroxidase (GPx) mimic, exhibits notable protective effects against cisplatin-induced hair cell (HC) damage in both in vitro and in vivo settings. It significantly reduces oxidative stress, apoptosis, and ferroptosis in hair cells, making it useful in the study of cisplatin-induced hearing loss [1].
Targets(IC50)	Apoptosis,Ferroptosis
In vitro	Ebselen derivative 1 (Compound 19) (100 μM) significantly reduced cisplatin-induced apoptosis and ferroptosis in hair cells and alleviated the surge of oxidative stress triggered by cisplatin throughout the cochlea [1].
In vivo	Ebselen derivative 1 (Compound 19) administered orally at 80 mg/kg once daily for one week in C57BL/6 mice exhibits hearing protective effects and mitigates hair cell loss induced by cisplatin (5 mg/kg; intraperitoneally administered on the third and seventh days of Ebselen derivative 1 treatment) [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2766 mL	16.3832 mL	32.7665 mL
5 mM	0.6553 mL	3.2766 mL	6.5533 mL
10 mM	0.3277 mL	1.6383 mL	3.2766 mL
50 mM	0.0655 mL	0.3277 mL	0.6553 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481