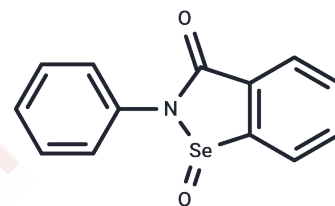


## Ebselen oxide

## Chemical Properties

CAS No. :	104473-83-8
Formula:	C <sub>13</sub> H <sub>9</sub> NO <sub>2</sub> Se
Molecular Weight:	290.18
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Ebselen oxide (EB-2), a novel variant of HER2 inhibitor for HER2-positive cancers, is an EB-1 analog with antibacterial and antifungal activity, and has shown cytoprotective effects in vitro in addition to cytoprotective effects against HN2. Ebselen oxide inhibits alginate production by Pseudomonas aeruginosa and inhibits HDAC1, HDAC3, HDAC3, and HDAC3. Ebselen oxide inhibits alginate production by Pseudomonas aeruginosa, inhibits HDAC1, HDAC3, HDAC4, HDAC5, HDAC6, HDAC7, HDAC8, and HDAC9, and can be used in the study of fungal infections.
Targets(IC50)	HER, Antibacterial, HDAC, Antifungal, Guanylate cyclase

## Solubility Information

Solubility	DMSO: 4 mg/mL (13.78 mM), 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	3.4461 mL	17.2307 mL	34.4614 mL
5 mM	0.6892 mL	3.4461 mL	6.8923 mL
10 mM	0.3446 mL	1.7231 mL	3.4461 mL
50 mM	0.0689 mL	0.3446 mL	0.6892 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

- Lieberman OJ, et al. High-throughput screening using the differential radial capillary action of ligand assay identifies ebselen as an inhibitor of diguanylate cyclases. ACS Chem Biol. 2014;9(1):183-192.
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- Wang Y, et al. Developing selective histone deacetylases (HDACs) inhibitors through ebselen and analogs. Drug Des Devel Ther. 2017;11:1369-1382. Published 2017 May 2.
- Tumu HCR, Cuffari BJ, Pino MA, Palus J, Piętko-Ottlik M, Billack B. Ebselen oxide attenuates mechlorethamine dermatotoxicity in the mouse ear vesicant model. Drug Chem Toxicol. 2020 Jul;43(4):335-346.

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