

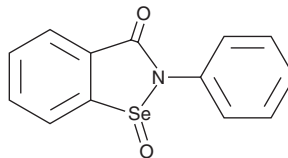
Product Information



Ebselen Oxide

Catalog No. 10012298

CAS Registry No.: 104473-83-8
Formal Name: 1-oxide-2-phenyl-1,2-benzisoselenazol-3(2H)-one
Synonym: NSC 639772
MF: C₁₃H₉NO₂Se
FW: 290.2
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that ebselen oxide be stored as supplied at -20°C. It should be stable for at least two years.

Ebselen oxide is supplied as a crystalline solid. A stock solution may be made by dissolving the ebselen oxide in an organic solvent purged with an inert gas. Ebselen oxide is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of ebselen oxide in these solvents is approximately 10 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of ebselen oxide can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of ebselen oxide in PBS, pH 7.2, is approximately 0.15 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Ebselen is an excellent scavenger of peroxynitrite and is used for the treatment of cerebral infarctions. Ebselen oxide, formed by the oxidation of ebselen, lacks antioxidant activity, indicating that it can serve as a negative control for ebselen.¹

Reference

1. Lass, A., Witting, P., Stocker, R., *et al.* Inhibition of copper- and peroxyl radical-induced LDL lipid oxidation by ebselen: Antioxidant actions in addition to hydroperoxide-reducing activity. *Biochim. Biophys. Acta* **1303**, 111-118 (1996).

Related Product

Ebselen - Cat. No. 70530

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent under separate cover to the MSDS supervisor at your institution.

WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will meet our specifications at the time of delivery.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have **any obligation or liability**, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer's **exclusive remedy** and Cayman's sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman's option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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