



LKT Laboratories, Inc.

Ebselen

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID E0073

CAS No. 60940-34-3

Chemical Name

Synonym 2-Phenyl-1,2-benzisoselenazolin-3-one

Formula C₁₃H₉NOSe

Formula Wt. 274.18

Melting Point 180-181°C

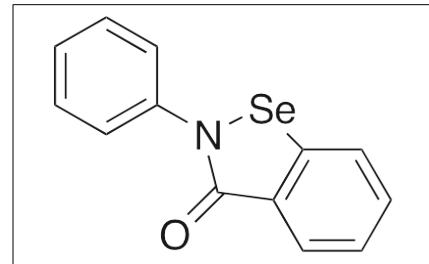
Purity ≥98%

Solubility Soluble in DMSO.

Store Temp -20°C

Ship Temp Ambient

Description Ebselen is a synthetic glutathione peroxidase mimetic that reacts with cysteine residues; it exhibits antimicrobial, antibacterial, anti-diabetic, and antioxidative activities. Ebselen increases ROS and mitochondrial membrane potential, inhibiting GDH function in vitro. Additionally, ebselen inhibits yeast sporulation and binds the *Mycobacterium* Ag85 complex, preventing outer membrane synthesis. In diabetic rats, this compound prevents hyperglycemia, decreases glucose levels, Hb1Ac, and oxidative stress, and increases β-cell mass.



Bulk quantities available upon request

Product ID **Size**

E0073 5 mg

E0073 25 mg

References Azad GK, Singh V, Mandal P, et al. Ebselen induces reactive oxygen species (ROS)-mediated cytotoxicity in *Saccharomyces cerevisiae* with inhibition of glutamate dehydrogenase being a target. *FEBS Open Bio.* 2014 Jan 6;4:77-89. PMID: 24490132.

Favrot L, Grzegorzewicz AE, Lajiness DH, et al. Mechanism of inhibition of *Mycobacterium tuberculosis* antigen 85 by ebselen. *Nat Commun.* 2013;4:2748. PMID: 24193546.

Mahadevan J, Parazzoli S, Oseid E, et al. Ebselen treatment prevents islet apoptosis, maintains intranuclear Pdx-1 and MafA levels, and preserves β-cell mass and function in ZDF rats. *Diabetes.* 2013 Oct;62(10):3582-8. PMID: 23801580.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.