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DATASHEET

Ebselen

Product overview

Name	Ebselen
Cat No	HB0270
Biological action	Inhibitor
Purity	>98%
Description	Broad enzyme inhibitor. Inhibits Gq protein signaling.

Images



Biological Data

Biological description	Broad enzyme inhibitor which inhibits PKC, NADPH, NADPH oxidase, NO synthases, 5-lipoxygenase and cyclooxygenase. It also mimics glutathione peroxidase. It shows neuroprotective, anti-cancer, antioxidant and anti-inflammatory actions. It also shows antiviral activity and inhibits the SARS-CoV-2 M ^{pro} protease (IC ₅₀ = 0.67 μM). Selectively inhibits Gq protein signaling and enhances differentiation of brown adipocytes.
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Solubility & Handling

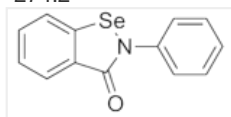
Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	2-Phenyl-1,2-benzisoselenazol-3(2H)-one
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Molecular Weight
Chemical structure

274.2



Molecular Formula
CAS Number
PubChem identifier
SMILES
InChi
InChiKey
MDL number

C₁₃H₉NOSe
60940-34-3
3194
C1=CC=C(C(=C1)N2C(=O)C3=CC=CC=C3[Se]2
InChI=1S/C13H9NOSe/c15-13-11-8-4-5-9-12(11)16-14(13)10-6-2-1-3-7-10/h1-9H
DYEFUKCXAQOFHX-UHFFFAOYSA-N
MFCD00210937

References

Molecular actions of ebselen--an antiinflammatory antioxidant.

Schewe T (1995) Gen Pharmacol 26(6)

PubMedID [7590103](#)

Studies on the anti-inflammatory activity of ebselen. Ebselen interferes with granulocyte oxidative burst by dual inhibition of NADPH oxidase and protein kinase C?

Cotgreave IA *et al* (1989) Biochem Pharmacol 38(4)

PubMedID [2537084](#)

Ebselen pretreatment attenuates ischemia/reperfusion injury and prevents hyperglycemia by improving hepatic insulin signaling and β -cell survival in gerbils.

Park S *et al* (2014) Free Radic Res 48(8)

PubMedID [24807533](#)

Induction of apoptosis in human multiple myeloma cell lines by ebselen via enhancing the endogenous reactive oxygen species production.

Zhang L *et al* (2014) Biomed Res Int 2014

PubMedID [24587987](#)

Structure of M pro from SARS-CoV-2 and discovery of its inhibitors

Yang et al (2020) Nature (7811)

PubMedID [32272481](#)
