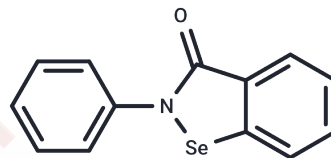


## Ebselen

## Chemical Properties

CAS No. :	60940-34-3
Formula:	C13H9NOSe
Molecular Weight:	274.18
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 (CCG-39161) is a organoselenium compound with anti-inflammatory, anti-oxidant and cytoprotective activity. Ebselen acts as a glutathione peroxidase mimetic and is thereby able to prevent cellular damage induced by reactive oxygen species (ROS). In addition, this agent inhibits the activity of a variety of enzymes including nitric oxide synthase (NOS), 5-lipoxygenase, cyclooxygenase, protein kinase C (PKC), NADPH oxidase and gastric H <sup>+</sup> /K <sup>+</sup> -ATPase. Furthermore, ebselen may be neuroprotective due to its ability to neutralize free radicals upon NMDA receptor activation thus, reducing lipoperoxidation mediated by glutamate-induced excitotoxicity.
Targets(IC50)	Calcium Channel,HIV Protease,COX,Phosphatase,Virus Protease

## Solubility Information

Solubility	DMSO: 40 mg/mL (145.89 mM),Sonication is recommended. H2O: Insoluble, ( < 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 6.25 mg/mL (22.8 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 6.25 mg/mL (22.8 mM),Suspension. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6472 mL	18.2362 mL	36.4724 mL
5 mM	0.7294 mL	3.6472 mL	7.2945 mL
10 mM	0.3647 mL	1.8236 mL	3.6472 mL
50 mM	0.0729 mL	0.3647 mL	0.7294 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

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