

Piperitenone oxide

Chemical Properties

CAS No. :	3564-96-3
Formula:	C10H14O2
Molecular Weight:	166.22
Storage:	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	Piperitenone oxide is a major chemical constituent of the carvone pathway MS essential oil.
Targets(IC50)	Others,Parasite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.0161 mL	30.0806 mL	60.1612 mL
5 mM	1.2032 mL	6.0161 mL	12.0322 mL
10 mM	0.6016 mL	3.0081 mL	6.0161 mL
50 mM	0.1203 mL	0.6016 mL	1.2032 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

- Božović M, Pirolli A, Ragno R. *Mentha suaveolens* Ehrh. (Lamiaceae) Essential Oil and Its Main Constituent Piperitenone Oxide: Biological Activities and Chemistry. *Molecules*. 2015 May 13;20(5):8605-33. doi: 10.3390/molecules20058605. Review. PubMed PMID: 25985361.
- Civitelli L, Panella S, Marcocci ME, De Petris A, Garzoli S, Pepi F, Vavala E, Ragno R, Nencioni L, Palamara AT, Angiolella L. In vitro inhibition of herpes simplex virus type 1 replication by *Mentha suaveolens* essential oil and its main component piperitenone oxide. *Phytomedicine*. 2014 May 15;21(6):857-65. doi: 10.1016/j.phymed.2014.01.013. Epub 2014 Mar 11. PubMed PMID: 24629600.
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- Tripathi AK, Prajapati V, Ahmad A, Aggarwal KK, Khanuja SP. Piperitenone oxide as toxic, repellent, and reproduction retardant toward malarial vector *Anopheles stephensi* (Diptera: Anophelinae). *J Med Entomol*. 2004 Jul;41(4):691-8. PubMed PMID: 15311462.

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