

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.
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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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