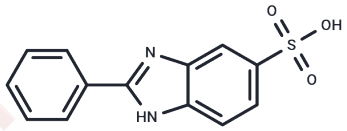
Data Sheet (Cat.No.T19310)

TargetMol

Ensulizole

Chemical Properties



CAS No. : 27503-81-7

Formula: C13H10N2O3S

Molecular Weight: 274.30

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	Ensulizole is a sulfonated ultraviolet absorber that strongly absorbs UVB and some UVA, and under UV or sunlight exposure, it produces reactive oxygen species that can damage DNA.
Targets(IC50)	Others,Reactive Oxygen Species,ROS
In vitro	At 4.0 mM [H2O2]0, a complete removal of 40.0 μM parent PBSA and 25% decrease in TOC are achieved with 190 min of UV irradiation.

Solubility Information

Solubility	0.1 M NaOH: 9 mg/mL (32.81 mM),when pH is adjusted to 8 with NaOH. Sonication is recommended. DMSO: 3.64 mg/mL (13.27 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6456 mL	18.2282 mL	36.4564 mL
5 mM	0.7291 mL	3.6456 mL	7.2913 mL
10 mM	0.3646 mL	1.8228 mL	3.6456 mL
50 mM	0.0729 mL	0.3646 mL	0.7291 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

Abdelraheem WH, et al. Degradation and mineralization of organic UV absorber compound 2-phenylbenzimidazole-5-sulfonic acid (PBSA) using UV-254nm/H2O2. J Hazard Mater. 2015 Jan 23;282:233-40.

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