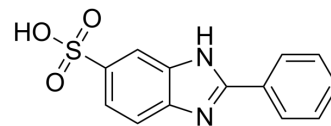


Ensulizole

Cat. No.:	HY-109654		
CAS No.:	27503-81-7		
Molecular Formula:	C ₁₃ H ₁₀ N ₂ O ₃ S		
Molecular Weight:	274.3		
Target:	Reactive Oxygen Species		
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

0.1 M NaOH : 10 mg/mL (36.46 mM; ultrasonic and adjust pH to 8 with NaOH)
 DMSO : 8.33 mg/mL (30.37 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Ensulizole is a sulfonated UV absorber and can intense UVB and partial UVA absorption. Ensulizole can damage the DNA through the generation of reactive oxygen species (ROS) upon UV or sunlight irradiation^[1].

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^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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