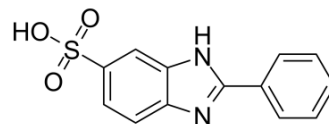


Ensulizole

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:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



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)

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	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. Ensulizole is a water soluble sunscreen ingredient^[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].

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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