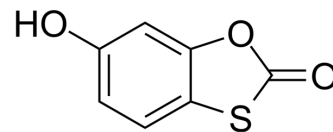


Tioxolone

Cat. No.:	HY-B0483		
CAS No.:	4991-65-5		
Molecular Formula:	C ₇ H ₄ O ₃ S		
Molecular Weight:	168.17		
Target:	Carbonic Anhydrase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (594.64 mM)
 H₂O : 0.67 mg/mL (3.98 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.9464 mL	29.7318 mL	59.4636 mL
	5 mM	1.1893 mL	5.9464 mL	11.8927 mL
	10 mM	0.5946 mL	2.9732 mL	5.9464 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (14.87 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (14.87 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (14.87 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tioxolone is an inhibitor of the metalloenzyme carbonic anhydrase I and has anti-acne activity.

REFERENCES

[1]. Maryam Hakimi Parizi, et al. Tioxolone niosomes exert antileishmanial effects on Leishmania tropica by promoting promastigote apoptosis and immunomodulation. Asian Pacific Journal of Tropical Medicine 2019; 12(8): 365-374.

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

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