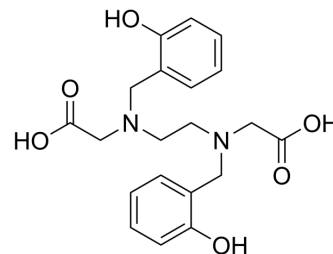


HBED

Cat. No.:	HY-114837	
CAS No.:	35998-29-9	
Molecular Formula:	C ₂₀ H ₂₄ N ₂ O ₆	
Molecular Weight:	388.41	
Target:	Ferroptosis	
Pathway:	Apoptosis	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5.56 mg/mL (14.31 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5746 mL	12.8730 mL	25.7460 mL
	5 mM	0.5149 mL	2.5746 mL	5.1492 mL
	10 mM	0.2575 mL	1.2873 mL	2.5746 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: ≥ 0.56 mg/mL (1.44 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 0.56 mg/mL (1.44 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

HBED is a potent iron chelator. HBED can be used to study transfusional iron overload^[1].

REFERENCES

- [1]. Lau E H, et al. Improvement of iron removal from the reticuloendothelial system by liposome encapsulation of N, N'-bis [2-hydroxybenzyl]-ethylenediamine-N, N'-diacetic acid (HBED): Comparison with desferrioxamine[J]. The Journal of Laboratory and Clinical Medicine, 1983, 101(5): 806-816.

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

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