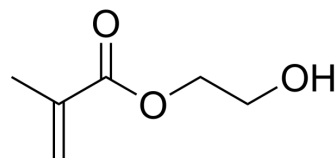


2-Hydroxyethyl methacrylate

Cat. No.:	HY-W012723
CAS No.:	868-77-9
Molecular Formula:	C ₆ H ₁₀ O ₃
Molecular Weight:	130.14
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (768.40 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	7.6840 mL	38.4202 mL	76.8403 mL
	5 mM	1.5368 mL	7.6840 mL	15.3681 mL
	10 mM	0.7684 mL	3.8420 mL	7.6840 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 (19.21 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (19.21 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (19.21 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2-Hydroxyethyl methacrylate (HEMA) is a monomer used in the synthesis of various polymers, and the polymer PHEMA of 2-Hydroxyethyl methacrylate is widely used in the synthesis of dental composite materials^{[1][2][3]}.

In Vitro

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

REFERENCES

[1]. André Jochums, et al. Influence of 2-hydroxyethyl methacrylate (HEMA) exposure on angiogenic differentiation of dental pulp stem cells (DPSCs). Dent Mater. 2021 Mar;37(3):534-546.

[2]. Montheard J P, et al. 2-hydroxyethyl methacrylate (HEMA): chemical properties and applications in biomedical fields[J]. Journal of Macromolecular Science, Part C: Polymer Reviews, 1992, 32(1): 1-34.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA