2-Hydroxyethyl methacrylate

Cat. No.: HY-W012723

CAS No.: 868-77-9

Molecular Formula: $C_6H_{10}O_3$

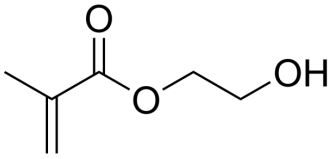
Molecular Weight: 130.14

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	Mass / Solvent / Concentration	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

1. 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
2. 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
3. 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.

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