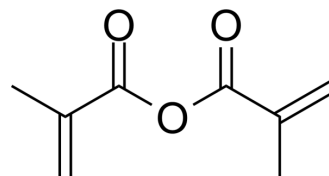


Methacrylic anhydride

Cat. No.:	HY-W017330	
CAS No.:	760-93-0	
Molecular Formula:	C ₈ H ₁₀ O ₃	
Molecular Weight:	154.17	
Target:	Biochemical Assay Reagents	
Pathway:	Others	
Storage:	Pure form	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (648.63 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	6.4863 mL	32.4317 mL	64.8635 mL
	5 mM	1.2973 mL	6.4863 mL	12.9727 mL
	10 mM	0.6486 mL	3.2432 mL	6.4863 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 (16.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (16.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (16.22 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Methacrylic anhydride is a typical polymerizable 1,6-diolefin. Methacrylic anhydride can form a soluble cyclopolymer by free-radical initiation. Methacrylic anhydride can spontaneously polymerize through the vinyl group and justifies the use of 2-6-di-tert-butyl-4-methylphenol as an inhibitor^{[1][2]}.

CUSTOMER VALIDATION

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- Int J Mol Sci. 2023 Aug 25, 24(17), 13210.

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REFERENCES

- [1]. Jesse C. H. Hwa, et al. Copolymerization of methacrylic anhydride with vinyl monomers. Journal of Polymer Science. November 1961, 55(161):197-213.
- [2]. F. Becquart, et al. Functionalization of a poly(vinyl alcohol) in the solid state with a swelling agent by methacrylic anhydride. Polymer Chemistry. 1 April 2004, 42(7):1618-1629.
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Caution: Product has not been fully validated for medical applications. For research use only.

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