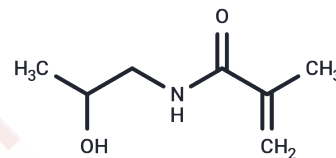


N-(2-Hydroxypropyl)methacrylamide

Chemical Properties

CAS No. :	21442-01-3
Formula:	C7H13NO2
Molecular Weight:	143.18
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	N-(2-Hydroxypropyl)methacrylamide is utilized in the synthesis of copolymers for the targeted delivery of antileishmanial agents in [Visceral leishmaniasis].
Targets(IC50)	Others,Parasite
In vivo	N-(2-Hydroxypropyl)methacrylamide copolymer-drug conjugates (5 mg/kg) contains lysosomally degradable side chains and shows significant antileishmanial activity (>99% inhibition) in vivo [1].

Solubility Information

Solubility	DMSO: 3.67 mg/mL (25.63 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (6.98 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.9842 mL	34.9211 mL	69.8422 mL
5 mM	1.3968 mL	6.9842 mL	13.9684 mL
10 mM	0.6984 mL	3.4921 mL	6.9842 mL
50 mM	0.1397 mL	0.6984 mL	1.3968 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Nan A, et al. N-(2-hydroxypropyl)methacrylamide (HPMA) copolymers for targeted delivery of 8-aminoquinoline antileishmanial drugs. *J Control Release*. 2001 Dec 13;77(3):233-43.

Hao Tang, et al. Comb-like Poly(N-(2-hydroxypropyl) methacrylamide) Doxorubicin Conjugates: The Influence of Polymer Architecture and Composition on the Biological Properties. *Chinese Journal of Polymer Science* volume 36, pages1225-1238(2018).

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481