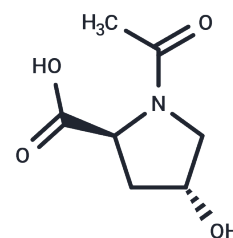


Oxaceprol

Chemical Properties

CAS No. :	33996-33-7
Formula:	C7H11NO4
Molecular Weight:	173.17
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	Oxaceprol (N-Acetyl-L-hydroxyproline) is an established therapeutic agent for osteoarthritis.
Targets(IC50)	Others,Amino Acids and Derivatives
In vivo	Oxaceprol, an established therapeutic agent for osteoarthritis, had no effect on macrophage prostaglandin E2 release in vitro and inhibited carrageenan paw oedema at high doses (18-150 mg/kg p.o.).?In the same dose range, oxaceprol was comparable to indomethacin (3 mg/kg p.o.) as an inhibitor of yeast hyperalgaesia and at 6-50 mg/kg/day p.o. had a mild, variable inhibitory effect on cotton pellet granuloma formation[1]

Solubility Information

Solubility	DMSO: 100 mg/mL (577.47 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: 4 mg/mL (23.1 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	5.7747 mL	28.8734 mL	57.7467 mL
5 mM	1.1549 mL	5.7747 mL	11.5493 mL
10 mM	0.5775 mL	2.8873 mL	5.7747 mL
50 mM	0.1155 mL	0.5775 mL	1.1549 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

Ionac M , Parnham M J , Plauchithiu M , et al. OXACEPROL, AN ATYPICAL INHIBITOR OF INFLAMMATION AND JOINT DAMAGE[J]. pharmacological research, 1996, 33(6):367-373.

Jiang F, Chen Y, Yu J, et al. Repurposed Fenoprofen Targeting SaeR Attenuates Staphylococcus aureus Virulence in Implant-Associated Infections. ACS Central Science. 2023

Herrmann G , Steeger D , Klasser M , et al. Oxaceprol is a Well-Tolerated Therapy for Osteoarthritis with Efficacy Equivalent to Diclofenac[J]. Clinical Rheumatology, 2000, 19(2):99-104.

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