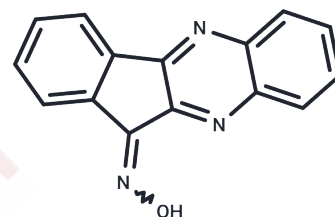


IQ-1S free acid

Chemical Properties

CAS No. :	23146-22-7
Formula:	C ₁₅ H ₉ N ₃ O
Molecular Weight:	247.25
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	IQ-1S free acid (IQ-1S) is an effective and specific c-Jun N-Terminal Kinase Inhibitor. IQ-1S inhibits murine delayed-type hypersensitivity. IQ-1S can reduce inflammation and cartilage loss associated with CIA and can serve as a small-molecule modulator for mechanistic studies of JNK function in rheumatoid arthritis. IQ-1S is highly specific for JNK and that its neutral form is the most abundant species at physiologic pH.
Targets(IC50)	NF-κB,JNK

Solubility Information

Solubility	DMSO: 18.33 mg/mL (74.14 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 (4.04 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	4.0445 mL	20.2224 mL	40.4449 mL
5 mM	0.8089 mL	4.0445 mL	8.089 mL
10 mM	0.4044 mL	2.0222 mL	4.0445 mL
50 mM	0.0809 mL	0.4044 mL	0.8089 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

Igor A. Schepetkin et al. J Pharmacol Exp Ther, 2015 Jun, 353(3): 505-516.

Schepetkin IA, et al. Mol Pharmacol. 2012 Jun;81(6):832-45.

Igor A. Schepetkin et al. Mol Pharmacol, 2012 Jun, 81(6): 832-845.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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