

IA-Alkyne

Chemical Properties

CAS No. : 930800-38-7

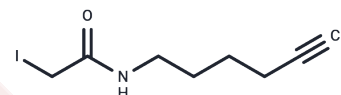
Formula: C₈H₁₂INO

Molecular Weight: 265.09

Keep away from direct sunlight

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	IA-Alkyne (Iodoacetamide-alkyne) is a TRP channel (TRPC) agonist. IA-Alkyne can be used to develop an isotopically tagged probe for quantitative cysteine-reactivity profiling. It also has the potential for the study of respiratory infection.
Targets(IC50)	TRP/TRPV Channel
In vitro	IA-alkyne (2.5-10 μM; 1 hour) reacts with cysteines. In-gel fluorescence imaging indicates strong fluorescent intensity of IA-alkyne. Labeled proteome samples are conjugated with a fluorescent rhodamine-azide tag via CuAAC and analyzed by SDS-PAGE. Soluble fractions of HeLa cell lysates (2.0 mg/ml) are treated with IA-alkyne [2].

Solubility Information

Solubility	DMSO: 245 mg/mL (924.21 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: 2 mg/mL (7.54 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	3.7723 mL	18.8615 mL	37.723 mL
5 mM	0.7545 mL	3.7723 mL	7.5446 mL
10 mM	0.3772 mL	1.8862 mL	3.7723 mL
50 mM	0.0754 mL	0.3772 mL	0.7545 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

David L. Use of trp channel agonists to treat infections. Patent US20130203715A1.

Abo M, et al. Isotopically-Labeled Iodoacetamide-Alkyne Probes for Quantitative Cysteine-Reactivity Profiling. Mol Pharm. 2018 Mar 5;15(3):743-749.

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