

Itaconate-alkyne

Chemical Properties

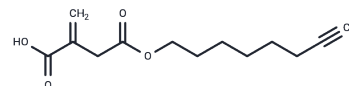
CAS No. : 2454181-83-8

Formula: C₁₃H₁₈O₄

Molecular Weight: 238.28

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Itaconate-alkyne (ITalk) is a bioorthogonal probe for quantitative and site-specific chemoproteomic profiling of itaconate in inflammatory macrophages and enables biochemical evaluation and proteomic analysis of its direct targets.
Targets(IC50)	Others
In vitro	Itaconate-alkyne can capture itaconate targets including DNA damage-binding protein 1 (DDB1), Gelsolin (GSN), ATP-citrate synthase (ACLY) and Adenylate kinase 2 (AK2) in inflammatory macrophages[1].

Solubility Information

Solubility	DMSO: 245 mg/mL (1028.20 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1967 mL	20.9837 mL	41.9674 mL
5 mM	0.8393 mL	4.1967 mL	8.3935 mL
10 mM	0.4197 mL	2.0984 mL	4.1967 mL
50 mM	0.0839 mL	0.4197 mL	0.8393 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.

Reference

Wei Qin, et al. Chemoproteomic Profiling of Itaconation by Bioorthogonal Probes in Inflammatory Macrophages. J Am Chem Soc . 2020 Jun 24;142(25):10894-10898.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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