

DYn-2

Chemical Properties

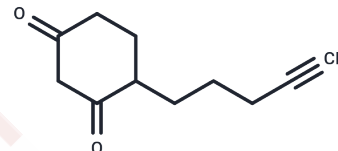
CAS No. : 1354630-46-8

Formula: C₁₁H₁₄O₂

Molecular Weight: 178.2277

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	Mild oxidation can convert the sulfhydryl group of cysteine residues on proteins to cysteine-sulfenic acid derivatives (Cys-SOH). Protein sulfenylation, then, is a post-translational modification that is relevant to redox signaling. DYn-2 is a chemoselective probe for detecting sulfenylated proteins in intact cells. DYn-2 consists of 1,3-cyclohexanedione coupled to an alkyne moiety by a 3-carbon spacer. The cyclohexanedione group selectively reacts with protein sulfenic acid modifications. The alkyne group of DYn-2 can then be detected using azide-bearing tags by standard click chemistry. This approach offers superior sensitivity relative to using azide-modified probes with alkynyl detection tags.
Targets(IC50)	Others

Solubility Information

Solubility	DMF: 30 mg/mL (168.32 mM), Sonication is recommended. Ethanol: 20 mg/mL (112.22 mM), Sonication is recommended. DMSO: 20 mg/mL (112.22 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	5.6107 mL	28.0536 mL	56.1073 mL
5 mM	1.1221 mL	5.6107 mL	11.2215 mL
10 mM	0.5611 mL	2.8054 mL	5.6107 mL
50 mM	0.1122 mL	0.5611 mL	1.1221 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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