

DKI5

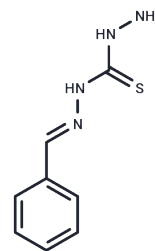
Chemical Properties

CAS No. : 1101130-96-4

Formula: C₈H₁₀N₄S

Molecular Weight: 194.26

Storage: Store at low temperature, The compound is unstable in solution. Please use soon
 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	DKI5 ((E)-N'-benzylidenehydrazinecarbothiohydrazide) is a LOX-1 inhibitor with an IC ₅₀ value of 22.5 μM. DKI5 may have anti-inflammatory and antioxidant activities and has shown anti-lipid peroxidation activity in in vitro bioassays.
Targets(IC ₅₀)	Lipoxygenase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.1477 mL	25.7387 mL	51.4774 mL
5 mM	1.0295 mL	5.1477 mL	10.2955 mL
10 mM	0.5148 mL	2.5739 mL	5.1477 mL
50 mM	0.103 mL	0.5148 mL	1.0295 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

Georgiou N, et al. Thiocarbohydrazone and Chalcone-Derived 3, 4-Dihydropyrimidinethione as Lipid Peroxidation and Soybean Lipoxygenase Inhibitors. ACS Omega, 2023.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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