

QM295

Chemical Properties

CAS No. : 1241046-32-1

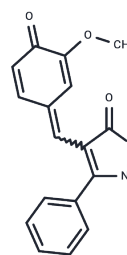
Formula: C17H13NO4

Molecular Weight: 295.29

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	QM295 is an inhibitor of endoplasmic reticulum oxidation 1 (ERO1) characterized by its selectively reversible thiol reactivity. ERO1 is a key enzyme in the endoplasmic reticulum of eukaryotic cells responsible for catalyzing disulfide bond formation, which is essential for proper protein folding. QM295 inhibits ERO1 activity by interacting with specific thiol groups. It serves as an effective pharmacological tool for investigating endoplasmic reticulum stress (ER stress) and the mechanisms of oxidative protein
Targets(IC50)	Others
In vitro	QM295 (50 μ M) binds to the thiol groups of ERO1, altering its conformation and leading to cellular accumulation of ERO1 alpha [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (270.92 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	3.3865 mL	16.9325 mL	33.865 mL
5 mM	0.6773 mL	3.3865 mL	6.773 mL
10 mM	0.3387 mL	1.6933 mL	3.3865 mL
50 mM	0.0677 mL	0.3387 mL	0.6773 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

Li JR, et al. Design and synthesis of thiazole derivatives as potent FabH inhibitors with antibacterial activity. Eur J Med Chem. 2014 Mar 21;75:438-47.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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