

Z16078526

Chemical Properties

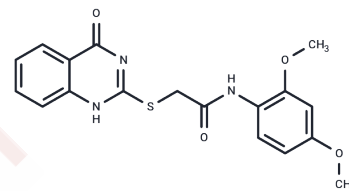
CAS No. : 852222-94-7

Formula: C₁₈H₁₇N₃O₄S

Molecular Weight: 371.41

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	Z16078526 enhances thermogenesis in mice by inducing endogenous Ucp1 expression, promoting p38 MAPK phosphorylation, and stimulating lipolysis in primary mouse brown adipocytes. Additionally, it activates thermogenic gene expression and mitochondrial activity, specifically uncoupled respiration, in these cells.
Targets(IC50)	Mitochondrial Metabolism,p38 MAPK

Solubility Information

Solubility	DMSO: 18.33 mg/mL (49.35 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1.5 mg/mL (4.04 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	2.6924 mL	13.4622 mL	26.9244 mL
5 mM	0.5385 mL	2.6924 mL	5.3849 mL
10 mM	0.2692 mL	1.3462 mL	2.6924 mL
50 mM	0.0538 mL	0.2692 mL	0.5385 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

Vergnes L, et al. Induction of UCP1 and thermogenesis by a small molecule via AKAP1/PKA modulation. J Biol Chem. 2020 Oct 30;295(44):15054-15069.

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