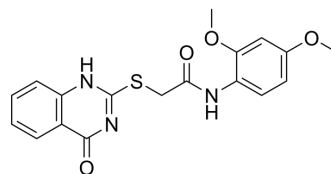


Z16078526

Cat. No.:	HY-153813		
CAS No.:	852222-94-7		
Molecular Formula:	C ₁₈ H ₁₇ N ₃ O ₄ S		
Molecular Weight:	371.41		
Target:	p38 MAPK; Mitochondrial Metabolism		
Pathway:	MAPK/ERK Pathway; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (269.24 mM; ultrasonic and warming and heat to 80°C)									
	<table border="1"> <tr> <td rowspan="2" style="text-align: center;">Solvent Concentration</td> <td style="text-align: center;">Mass</td> <td rowspan="2" style="text-align: center;">1 mg</td> <td rowspan="2" style="text-align: center;">5 mg</td> <td rowspan="2" style="text-align: center;">10 mg</td> </tr> <tr> <td></td> </tr> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg				
Solvent Concentration	Mass		1 mg				5 mg	10 mg		
Preparing Stock Solutions	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						
	Please refer to the solubility information to select the appropriate solvent.									
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 5 mg/mL (13.46 mM); Clear solution; Need ultrasonic									

BIOLOGICAL ACTIVITY

Description	Z16078526 induces endogenous Ucp1 expression, promotes p38 MAPK phosphorylation and lipolysis in primary mouse brown adipocytes. Z16078526 activates thermogenic gene expression and mitochondrial activity (uncoupled respiration) in mouse brown adipocytes. Z16078526 also stimulates thermogenesis in the mouse ^[1] .
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REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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