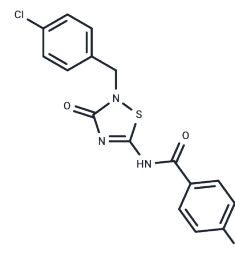


O-304

Chemical Properties

CAS No. : 1261289-04-6
Formula: C₁₆H₁₁Cl₂N₃O₂S
Molecular Weight: 380.25
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	O-304 is a pan-activator of AMP-activated protein kinase (AMPK).
Targets(IC50)	AMPK
In vivo	In vivo, O-304 (100 mg/kg) prevents high-fat diet-induced increases in fasted glucose and plasma insulin levels and development of insulin resistance, as well as increases calf muscle pAMPK levels in mice.

Solubility Information

Solubility	DMSO: 45 mg/mL (118.34 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (5.26 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	2.6298 mL	13.1492 mL	26.2985 mL
5 mM	0.526 mL	2.6298 mL	5.2597 mL
10 mM	0.263 mL	1.3149 mL	2.6298 mL
50 mM	0.0526 mL	0.263 mL	0.526 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

Steneberg, Pär, Lindahl E , Dahl U , et al. PAN-AMPK activator O304 improves glucose homeostasis and microvascular perfusion in mice and type 2 diabetes patients[J]. JCI Insight, 2018, 3(12).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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