

ZLN005

Chemical Properties

CAS No. : 49671-76-3

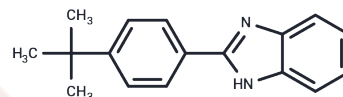
Formula: C₁₇H₁₈N₂

Molecular Weight: 250.34

Appearance: no data available

Storage: store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	ZLN005 is an effective and tissue-specific transcriptional activator of PGC-1 α .
Targets(IC50)	Autophagy
In vitro	ZLN005 (15 mg/kg, p.o.) exhibits anti-hyperglycemic and anti-hyperlipidemic effects, and enhances insulin sensitivity in db/db mice without effecting lean mice.
In vivo	In L6 myotubes, ZLN005 enhances glucose uptake and fatty acid oxidation by activating AMP-activated protein kinase (AMPK), and it elevates the expression of PGC-1 α genes and downstream genes without significant toxicity. However, the same effects are not observed in primary rat hepatocytes, indicating cell-specific actions.

Solubility Information

Solubility	Ethanol: 2 mg/mL (7.99 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 60 mg/mL (239.67 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	3.9946 mL	19.9728 mL	39.9457 mL
5 mM	0.7989 mL	3.9946 mL	7.9891 mL
10 mM	0.3995 mL	1.9973 mL	3.9946 mL
50 mM	0.0799 mL	0.3995 mL	0.7989 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.

Reference

Zhang LN, et al. Diabetes. 2013, 62(4), 1297-1307.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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