

ZLN005

## Chemical Properties

CAS No. : 49671-76-3

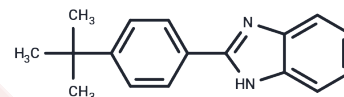
Formula: C<sub>17</sub>H<sub>18</sub>N<sub>2</sub>

Molecular Weight: 250.34

Store at low temperature

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	ZLN005 is an effective and tissue-specific transcriptional activator of PGC-1 $\alpha$ .
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 $\alpha$ 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 <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 85 mg/mL (339.54 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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

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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

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

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