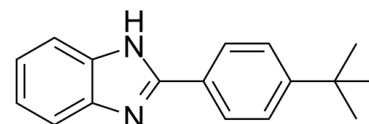


## Data Sheet

<b>Product Name:</b>	ZLN005
<b>Cat. No.:</b>	CS-2189
<b>CAS No.:</b>	49671-76-3
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>18</sub> N <sub>2</sub>
<b>Molecular Weight:</b>	250.34
<b>Target:</b>	Autophagy; PGC-1 $\alpha$
<b>Pathway:</b>	Autophagy; Metabolic Enzyme/Protease
<b>Solubility:</b>	DMSO : 22 mg/mL (87.88 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

ZLN005 is a potent activator of **peroxisome proliferator-activated receptor- $\gamma$  coactivator-1 $\alpha$  (PGC-1 $\alpha$ )**<sup>[1]</sup>. IC<sub>50</sub> & Target: Peroxisome proliferator-activated receptor- $\gamma$  coactivator-1 $\alpha$ <sup>[1]</sup> **In Vitro:** ZLN005 (2.5-20  $\mu$ M; 24 hours ) activates AMPK in a dose-dependent manner<sup>[1]</sup>. **In Vivo:** ZLN005 (15 mg/kg; p.o.; per day for 4 weeks) decreases random blood glucose and fasting blood glucose levels over 4 weeks compared with lean mice<sup>[1]</sup>.

### References:

[1]. Zhang LN, et al. Novel small-molecule PGC-1 $\alpha$  transcriptional regulator with beneficial effects on diabetic db/db mice. *Diabetes*. 2013 Apr;62(4):1297-307.

### CAIndexNames:

1H-Benzimidazole, 2-[4-(1,1-dimethylethyl)phenyl]-

### SMILES:

CC(C1=CC=C(C2=NC3=CC=CC=C3N2)C=C1)(C)C

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

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