
ZLN005

产品编号: D50810

CAS: 49671-76-3

分子式: C₁₇H₁₈N₂

纯度: ≥98%

InChi: InChI=1S/C₁₇H₁₈N₂/c1-17(2,3)13-10-8-12(9-11-13)16-18-14-6-4-5-7-15(14)19-16/h4-11H,1-3H3,(H,18,19)

InChi Key: LQUNNCQSFFKSSK-UHFFFAOYSA-N

Smiles: CC(C)(C)C1C=CC(=CC=1)C1NC2C=CC=CC=2N=1

外观: 固体粉末

作用通路: Autophagy

溶解性: DMSO up to 100 mM

保存条件: Store in dry, dark place for one year.

产品介绍: ZLN005 is a potent and selective small molecule PGC-1α transcriptional activator. It stimulates the expression of PGC-1α and downstream genes in skeletal muscle cells, improving glucose utilization and fatty acid oxidation. Chronic oral administration of ZLN005 at 15 mg/kg per day to diabetic db/db mice increased PGC-1α and downstream gene transcription in skeletal muscle, increasing fat oxidation and improving glucose tolerance, pyruvate tolerance, and insulin sensitivity. PGC-1α is a tissue-specific and inducible transcriptional coactivator for several nuclear receptors and plays a key role in energy metabolism, hepatic gluconeogenesis, and cholesterol homeostasis. ZLN005 is a useful chemical probe to study this target.