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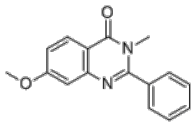
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	JND003
Cat. No.	:	PC-49158
CAS No.	:	1187568-16-6
Molecular Formula	:	$C_{16}H_{14}N_2O_2$
Molecular Weight	:	266.300
Target	:	Estrogen Receptor/ERR
Solubility	:	10 mM in DMSO



Biological Activity

JND003 is a potent, selective and orally bioavailable **ERRα** agonist with EC50 of 86.0 nM for enhancing the interaction between ERRα and PGC1α peptide in AlphaScreen assays, exhibits an EC50 value of 2.7 uM in AAB-Luc cells stably expressing ERRα luciferase reporter.
JND003 (5.0 μM) potently and selectively agonizes the transcriptional function of ERRα in AAB-Luc cells, displays no obvious effect on ERRβ and ERRγ, as well as other nuclear hormone receptors, such as ERα, ERβ, ERγ and PPARγ.
JND003 (10.0 μM) reduces lipid accumulation and enhances fatty acid oxidization in HepG2-IR cells.
JND003(30mg/kg, oral) exhibits high grade of distribution in liver and abdominal adipose tissues, improves insulin sensitivity, alleviates liver steatosis and serum lipid disorders in HFD-fed C57 mice.

References

Liufeng Mao, et al. ***ACS Bio Med Chem Au***. 2022 Jun 15;2(3):282-296.

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