CD BioGlyco
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Product Information

AMPK inhibitor A-769662, Purity ≥98%

Cat. No.: X24-05-ZQ279

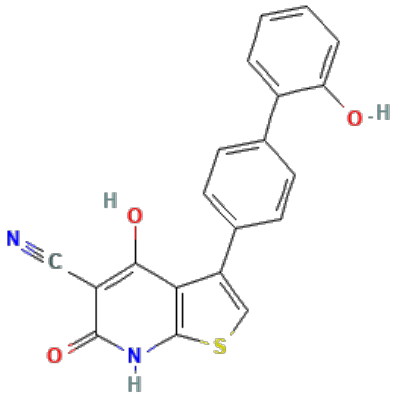
Size: 5 mg; 10 mg; 50 mg; 100 mg

CAS Number: 844499-71-4

Compound CID: 54708532

Synonym: 844499-71-4; A769662; AMPK inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	A-769662, soluble in DMSO and insoluble in ethanol and water, downregulates metabolic and energy homeostasis pathways, affecting cellular energy balance and potentially influencing cancer and metabolic disorders. It targets AMPK and fatty acid synthesis.
Molecular Weight	360.4
Molecular Formula	$C_{20}H_{12}N_2O_3S$
Targets	AMPK: 0.8 μM (EC_{50}); Fatty acid synthesis: 3.2 μM
IUPAC Name	4-Hydroxy-3-[4-(2-hydroxyphenyl)phenyl]-6-*oxo*-7*H*-thieno[2,3-b]pyridine-5-carbonitrile
InChI	InChI=1S/C20H12N2O3S/c21-9-14-18(24)17-15(10-26-20(17)22-19(14)25)12-7-5-11(6-8-12)13-3-1-2-4-16(13)23/h1-8,10,23H,(H2,22,24,25)
InChI Key	CTESJDQKVOEUOY-UHFFFAOYSA-N
Canonical SMILES	C1=CC=C(C(=C1)C2=CC=C(C=C2)C3=CSC4=C3C(=C(C(=O)N4)C#N)O)O
Form	Lyophilized powder
Purity	≥98%
Solubility	DMSO: 65 mg/mL (180.36 mM); Water: Insoluble; Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	A-769662 is employed to activate AMPK and analyze its effects on metabolism and cancer.
Storage	Store at -20ºC.

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