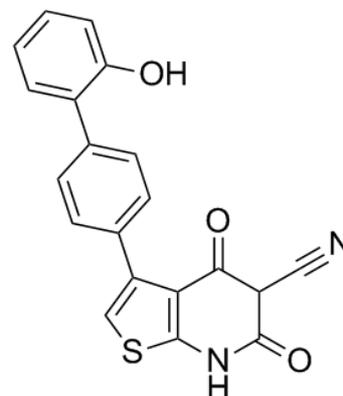


Product Name : A-769662
Cat. No. : PC-45830
CAS No. : 844499-71-4
Molecular Formula : C₂₀H₁₂N₂O₃S
Molecular Weight : 360.3859
Target : AMPK
Solubility : DMSO: 24 mg/mL



Biological Activity

A-769662 is a small molecule **AMPK activator** that directly stimulates partially purified rat liver AMPK (EC₅₀=0.8 μM) and inhibits fatty acid synthesis in primary rat hepatocytes (IC₅₀=3.2 μM).

A-769662 decreases hepatic expression of PEPCK, G6Pase, and FAS, lowered plasma glucose by 40%, reduces body weight gain and significantly decreases both plasma and liver triglyceride levels in ob/ob mice (30 mg/kg b.i.d.).

A-769662 also directly inhibits Na(+)-K(+)-ATPase, decreases the sodium pump cell surface abundance in L6 skeletal muscle cells.

References

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Göransson O, et al. *J Biol Chem.* 2007 Nov 9;282(45):32549-60.

Benziane B, et al. *Am J Physiol Cell Physiol.* 2009 Dec;297(6):C1554-66.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com