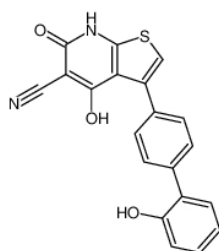


A-769662 (CAS: 844499-71-4)**Catalog #: EBC51011****Biological Activity**

Synonyms	A769662, A 769662
Chemical Name	6,7-dihydro-4-hydroxy-3-(2'-hydroxy[1,1'-biphenyl]-4-yl)-6-oxo-thieno[2,3-b]pyridine-5-carbonitrile
Application	A-769662 is an AMPK activator which induces PI3-kinase-dependent glucose uptake and inhibits AMPK dephosphorylation
CAS No.	844499-71-4
Purity	≥99.0%
Molecular Weight	360.39
Molecular Formula	C ₂₀ H ₁₂ N ₂ O ₃ S
Shipping	Gel Pack
Storage	Store at -20° C
Target & IC₅₀	AMPK EC ₅₀ = 0.8 μM

Molecular Structure**Solubility**

DMSO: 36 mg/mL (100 mM)

Ethanol: 3.6 mg/mL (10 mM)

PS: < 1 mg/ml refers to the product insoluble**Description**

A-769662 is an AMP-activated protein kinase (AMPK) activator that mimics the function of AMP on AMPK β-1 by allosteric activation and the inhibition of dephosphorylation of AMPK. In the presence of both LKB1 and A-769662, the phosphorylation of AMPK is suppressed. In addition, A-769662 is not effected by upstream kinases such as calmodulin-dependent protein kinase kinase-β when phosphorylating AMPK beta-1. In vitro tests indicate A-769662 suppresses the activity of Sodium-Potassium Adenosine Triphosphatase by inhibiting the α(1)-isoform of the pump and decreasing the cell surface abundance of the protein complex in skeletal muscle cells and induces glucose uptake through a PI3-kinase-dependent pathway.

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