
A769662

产品编号: D50718

CAS: 844499-71-4

分子式: C₂₀H₁₂N₂O₃S

纯度: ≥98%

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: CTESJDQKVQOEUY-UHFFFAOYSA-N

Smiles: N#CC1C(=O)NC2SC=C(C=2C=1O)C1C=CC(=CC=1)C1C=CC=CC=1O

外观: 固体粉末

作用通路: AMPK

溶解性: DMSO up to 50 mM

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

产品介绍: A769662 is a potent and selective small-molecule activator of AMP-activated protein kinase (AMPK). It induces allosteric activation of AMPK and inhibition of dephosphorylation of AMPK on Thr-172, similar to the effects of AMP. The activation of AMPK inhibits mTOR signaling, which is a positive effector of cell growth and survival. A769662 stimulated partially purified rat liver AMPK with an EC₅₀ of 0.8 μM and inhibited fatty acid synthesis in primary rat hepatocytes with an IC₅₀ of 3.2 μM. It can also stimulate Na⁺, K⁺-ATPase activity in skeletal muscle cells.