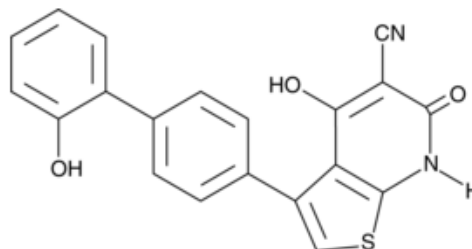


A-769662**Catalog #:** w37068**Lot #:** 140415**Size:** 5 mg**Structure:****CAS Registry #:** 844499-71-4**Purity:** ≥99%**Chemical Formula:** C₂₀H₁₂N₂O₃S**Molecular Weight:** 360.4

Description: A-769662 is a potent, reversible activator of AMP-activated protein kinase (AMPK). AMPK is an α ; β ; γ heterotrimer and plays an important role in regulating cellular and whole-body metabolism. A-769662 only activates AMPK heterotrimers containing the β 1 subunit. A-769662 activates AMPK through the β subunit carbohydrate-binding module and the γ subunit but not the AMP-binding sites. A-769662 stimulated partially purified rat liver AMPK with an EC₅₀ of 0.8 μ M and inhibited fatty acid synthesis in primary rat hepatocytes with an IC₅₀ of 3.2 μ M.

Appearance: White solid or off-white solid.

Solubility: Soluble in DMSO at 33 mg/ml; soluble in ethanol at 5 mg/ml with slight warming; very poorly soluble in water; maximum solubility in plain water is estimated to be about 50-100 μ M.

Storage/Stability: Store at or below -20°C for at least 12 months from date of receipt, when stored as directed. Do not store aqueous solutions for more than one day.

References:

1. Scott, J.W., *et al.*, *Chem. Biol.* 2007;**15**, 1220-1230.
2. Cool, B., *et al.*, *Cell Metab.* 2006;**3**, 403-416.