



# Data Sheet

Research Use Only

## Compound Name

A769662

## Catalog Number

SM08

## Alternative Names

A-769662, 6,7-Dihydro-4-hydroxy-3-(2'-hydroxy[1,1'-biphenyl]-4-yl)-6-oxo-thieno[2,3-b]pyridine-5-carbonitrile

## Activity

A769662 is a potent, reversible activator of AMP-activated protein kinase (AMPK). It activates beta1-containing AMPK complexes, but induces glucose uptake via a PI3 kinase-dependent pathway.

## Effect

A769662 inhibits 3T3-L1 adipocyte differentiation and may be used to treat obesity. It also inhibited the function of the 26S proteasome via an AMPK-independent mechanism.

## Purity

>99%

## CAS

844499-71-4

## Formula

$C_{20}H_{12}N_2O_3S$

## Molecular Weight

360.39

## Solubility

DMSO, ethanol

## Stability

Stable at -20°C. Keep away from direct sunlight.

## References

1. Göransson, O., et al. 2007. J. Biol. Chem. 282: 32549-32560. PMID: 17855357
2. Treebak, J.T., et al. 2009. Am. J. Physiol. Cell Physiol. 297: 1041-1052. PMID: 19657063
3. Benziane, B., et al. 2009. Am. J. Physiol. Cell Physiol. 297: 1554-1566. PMID: 19828836
4. Rajamohan, F., et al. 2010. Protein Expr. Purif. 73: 189-197. PMID: 20451617