



LKT Laboratories, Inc.

A-769662

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Product Information

Product ID A2420

CAS No. 844499-71-4

Chemical Name

Synonym

Formula $C_{20}H_{12}N_2O_3S$

Formula Wt. 360.39

Melting Point

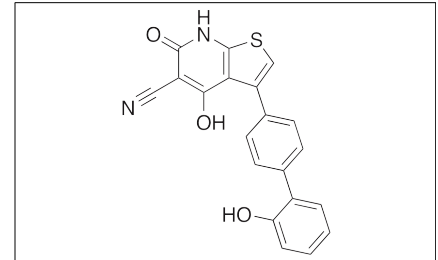
Purity $\geq 98\%$

Solubility DMSO 72 mg/mL (199.78 mM)
Water Insoluble
Ethanol Insoluble

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description A-769662 is an activator of AMPK that is used in research models to study signaling mechanisms involved in cellular homeostasis. A-769662 exhibits anticancer and antithrombotic activities. In prostate cancer cells, this compound inhibits cellular proliferation, migration, and invasion. In osteoblasts, A-769662 inhibits H2O2-induced apoptosis and decreases accumulation of ROS. Additionally, it also decreases platelet aggregation in vitro.



Bulk quantities available upon request

Product ID	Size
A2420	5 mg
A2420	10 mg

References Kim J, Shin J, Ha J. Screening methods for AMP-activated protein kinase modulators: a patent review. *Expert Opin Ther Pat.* 2015 Mar;25(3):261-77. PMID: 25535089.

Choudhury Y, Yang Z, Ahmad I, et al. AMP-activated protein kinase (AMPK) as a potential therapeutic target independent of PI3K/Akt signaling in prostate cancer. *Oncoscience.* 2014 Jun 4;1(6):446-56. PMID: 25594043.

Zhu Y, Zhou J, Ao R, et al. A-769662 protects osteoblasts from hydrogen dioxide-induced apoptosis through activating of AMP-activated protein kinase (AMPK). *Int J Mol Sci.* 2014 Jun 23;15(6):11190-203. PMID: 24960362.

Liu Y, Oh SJ, Chang KH, et al. Antiplatelet effect of AMP-activated protein kinase activator and its potentiation by the phosphodiesterase inhibitor dipyridamole. *Biochem Pharmacol.* 2013 Oct 1;86(7):914-25. PMID: 23876340.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.