



LKT Laboratories, Inc.

Mdivi-1

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## Product Information

Product ID M1335

CAS No. 338967-87-6

Chemical Name

Synonym

Formula  $C_{15}H_{10}Cl_2N_2O_2S$

Formula Wt. 353.2

Melting Point

Purity  $\geq 98\%$

Solubility DMSO 70 mg/mL

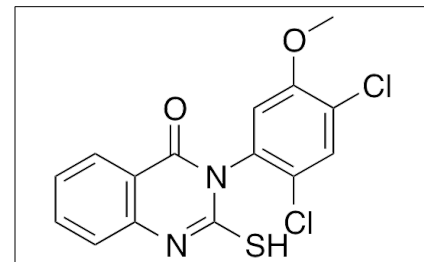
Water Insoluble

Ethanol Insoluble

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

Ship Temp Ambient

**Description** Mdivi-1 is a quinazolinone inhibitor of mitochondrial division that prevents mitochondrial fission and exhibits neuroprotective, cardioprotective, and anti-metastatic properties. In spinal cord injury models, Mdivi-1 decreases neuronal apoptosis and ameliorates motor dysfunction. In animal models of myocardial infarction, this compound decreases oxidative damage, enhances myocardial performance, and improves overall survival rates. Mdivi-1 also inhibits hypoxia-induced migration in breast cancer cells and improves the activity of other co-administered chemotherapeutics.



**Bulk quantities available upon request**

**Product ID Size**

M1335 5 mg

M1335 25 mg

**References** Li G, Jia Z, Cao Y, et al. Mitochondrial Division Inhibitor 1 Ameliorates Mitochondrial Injury, Apoptosis, and Motor Dysfunction After Acute Spinal Cord Injury in Rats. *Neurochem Res.* 2015 May 13. [Epub ahead of print]. PMID: 25968480.

Liu JM, Yi Z, Liu SZ, et al. The mitochondrial division inhibitor mdivi-1 attenuates spinal cord ischemia-reperfusion injury both in vitro and in vivo: Involvement of BK channels. *Brain Res.* 2015 Mar 24. [Epub ahead of print]. PMID: 25818100.

Sharp WW, Beiser DG, Fang YH, et al. Inhibition of the mitochondrial fission protein dynamin-related protein 1 improves survival in a murine cardiac arrest model. *Crit Care Med.* 2015 Feb;43(2):e38-47. PMID: 25599491.

Han XJ, Yang ZJ, Jiang LP, et al. Mitochondrial dynamics regulates hypoxia-induced migration and antineoplastic activity of cisplatin in breast cancer cells. *Int J Oncol.* 2015 Feb;46(2):691-700. PMID: 25434519.

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