



LKT Laboratories, Inc.

AK-1

Phone: 888-558-5227

651-644-8424

Fax: 888-558-7329

Email: getinfo@lctlabs.com

Web: lctlabs.com

Product Information

Product ID A4000

CAS No. 330461-64-8

Chemical Name

Synonym SIRT2 inhibitor II

Formula $C_{19}H_{21}N_3O_5S$

Formula Wt. 403.45

Melting Point

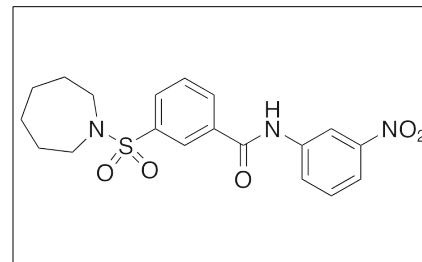
Purity $\geq 99\%$

Solubility Soluble in DMSO

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

Ship Temp Ambient

Description AK-1 is an inhibitor of sirtuin 2 (SIRT2); sirtuins are considered class III histone deacetylases (HDACs). AK-1 exhibits neuroprotective and anticancer activities. This compound prevents some hippocampal neurodegeneration in animal models of Alzheimer's disease. AK-1 also induces cell cycle arrest in colon carcinoma cells by downregulating expression of Snail.



Bulk quantities available upon request

Product ID	Size
------------	------

A4000	5 mg
-------	------

A4000	10 mg
-------	-------

A4000	25 mg
-------	-------

References Cheon MG, Kim W, Choi M, et al. AK-1, a specific SIRT2 inhibitor, induces cell cycle arrest by downregulating Snail in HCT116 human colon carcinoma cells. *Cancer Lett.* 2015 Jan 28;356(2 Pt B):637-45. PMID: 25312940.

Spires-Jones TL, Fox LM, Rozkalne A, et al. Inhibition of Sirtuin 2 with Sulfobenzoic Acid Derivative AK1 is Non-Toxic and Potentially Neuroprotective in a Mouse Model of Frontotemporal Dementia. *Front Pharmacol.* 2012 Mar 12;3:42. PMID: 22416232.

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