



LKT Laboratories, Inc.

Kenpaullone

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Product Information

Product ID K1655

CAS No. 142273-20-9

Chemical Name 9-Bromo-7,12-dihydroindolo-[3,2-d][1]benzazepin-6(5H)-one

Synonym

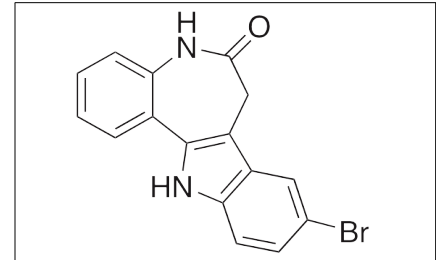
Formula C₁₆H₁₁BrN₂O

Formula Wt. 327.18

Melting Point >330°C

Purity ≥95%

Solubility Soluble in DMSO. Insoluble in water and ethanol.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
K1655	1 mg	\$123.20
K1655	5 mg	\$454.80

Store Temp 4°C

Ship Temp Ambient

Description Kenpaullone is an inhibitor of GSK-3β, HGK, and CDKs that exhibits anti-inflammatory, immunomodulatory, and neuroprotective activities. Kenpaullone increases levels of SREBP-1 as well as GSK-3β and acetylcholine-activated inwardly rectifying K⁺ (IKACH) channels in diabetic mice. Kenpaullone also inhibits TGF-β-induced induction of RORγt and increases expression of Foxp3 in T cells, inhibiting pathology of experimental autoimmune encephalitis (EAE) in vivo. In pluripotent stem cells derived from autotrophic lateral sclerosis (ALS) patients, kenpaullone improves motor neuron survival. Additionally, this compound inhibits MPP⁺-induced cell death in cellular models of Parkinson's disease by preventing changes in the mitochondrial membrane potential and inhibiting activation of caspases.

References Zhang Y, Welzig CM, Picard KL, et al. Glycogen synthase kinase-3β inhibition ameliorates cardiac parasympathetic dysfunction in type 1 diabetic akita mice. *Diabetes*. 2014 Jun;63(6):2097-113. PMID: 24458356.

Yoshida H, Kotani H, Kondo T, et al. CDK inhibitors suppress Th17 and promote iTreg differentiation, and ameliorate experimental autoimmune encephalomyelitis in mice. *Biochem Biophys Res Commun*. 2013 Jun 7;435(3):378-84. PMID: 23665028.

Yang YM, Gupta SK, Kim KJ, et al. A small molecule screen in stem-cell-derived motor neurons identifies a kinase inhibitor as a candidate therapeutic for ALS. *Cell Stem Cell*. 2013 Jun 6;12(6):713-26. PMID: 23602540.

Petit-Paitel A, Brau F, Cazareth J, et al. Involvement of cytosolic and mitochondrial GSK-3β in mitochondrial dysfunction and neuronal cell death of MPTP/MPP⁺-treated neurons. *PLoS One*. 2009;4(5):e5491. PMID: 19430525.

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