



LKT Laboratories, Inc.

Nicergoline

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Product Information

Product ID N3210

CAS No. 27848-84-6

Chemical Name 5-Bromonicotinic acid 10-methoxy-1,6-dimethylergoline-8-methyl ester

Synonym Nicotergoline; Nimergoline; Nimergoline base; Nicergolinum

Formula C₂₄H₂₆BrN₃O₃

Formula Wt. 484.39

Melting Point

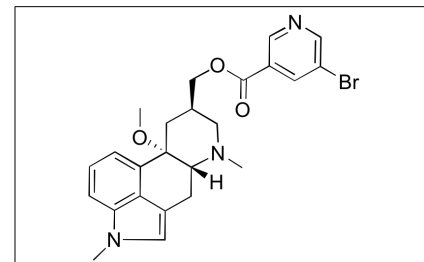
Purity ≥98%

Solubility soluble in DMSO; alcohol, chloroform, and acetone

Store Temp 4°C

Ship Temp Ambient

Description Nicergoline is an ergot derivative from the fungi genus *Claviceps*. Nicergoline exhibits anti-atherosclerotic and antithrombotic activity, used to treat vascular disorders including thrombosis, atherosclerosis, Reynaud's disease, and retinopathy. This compound acts as an α1-adrenergic receptor inhibitor and also inhibits platelet aggregation. Additionally, nicergoline shows neuroprotective benefit, increasing glutamate uptake and levels of BDNF and substance P in the brain. Nicergoline also decreases levels of pro-inflammatory cytokines TNF-α, IL-6, and IL-18.



Bulk quantities available upon request

Product ID	Size
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N3210	250 mg
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N3210	500 mg
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N3210	1 g
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References Nishiyama Y, Abe A, Ueda M, et al. Nicergoline increases serum substance P levels in patients with an ischaemic stroke. *Cerebrovasc Dis.* 2010 Jan;29(2):194-8. PMID: 20029189.

Schardl CL, Panaccione DG, Tudzynski P. Ergot alkaloids--biology and molecular biology. *Alkaloids Chem Biol.* 2006;63:45-86. PMID: 17133714.

Mizuno T, Kuno R, Nitta A, et al. Protective effects of nicergoline against neuronal cell death induced by activated microglia and astrocytes. *Brain Res.* 2005 Dec 20;1066(1-2):78-85. PMID: 16325157.

Nishida A, Iwata H, Kudo Y, et al. Nicergoline enhances glutamate uptake via glutamate transporters in rat cortical synaptosomes. *Biol Pharm Bull.* 2004 Jun;27(6):817-20. PMID: 15187425.

Fioravanti M, Flicker L. Efficacy of nicergoline in dementia and other age associated forms of cognitive impairment. *Cochrane Database Syst Rev.* 2001;(4):CD003159. PMID: 11687175.

Alvarez-Guerra M, Bertholom N, Garay RP. Selective blockade by nicergoline of vascular responses elicited by stimulation of alpha 1A-adrenoceptor subtype in the rat. *Fundam Clin Pharmacol.* 1999;13(1):50-8. PMID: 10027088.

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