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Product Information

Product ID D3349

CAS No. 97657-92-6

Chemical Name

Synonym Dimebon 2HCl, Latrepirdine, Dimebolin Hydrochloride

Formula C₂₁H₂₅N₃ • 2HCl

Formula Wt. 392.37

Melting Point

Purity ≥98%

Solubility H2O: ≥10 mg/mL

· HCI

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
D3349	1 mg	\$86.00
D3349	5 mg	\$152.80
D3349	10 mg	\$233.40

Store Temp -20°C Ship Temp Ambient

Description Dimebon is an activator of AMPK, a potentiator of AMPA, and an inhibitor of L-type voltage-gated Ca2+ channels, NMDA receptors, H1/2 histamine receptors, α-adrenergic receptors, and 5-HT2C/5A/6 receptors. Dimebon displays neuroprotective and cognition enhancing effects in neurodegenerative diseases. Dimebon decreases neuronal excitability and glutamate release. In animal models of autotrophic lateral sclerosis (ALS), dimebon delays the onset of symptoms and increases the lifespan. In animal models of Alzheimer's disease, this compound regulates APP metabolism, decreasing levels of amyloid-B (AB). In other animal models, dimebon prevents AB-induced mitochondrial swelling in the brain. Dimebon also exhibits beneficial effects in animal models of Parkinson's disease.

References Coughlan KS, Mitchem MR, Hogg MC, et al. "Preconditioning" with latrepirdine, an adenosine 5'-monophosphate-activated protein kinase activator, delays amyotrophic lateral sclerosis progression in SOD1(G93A) mice. Neurobiol Aging. 2015 Feb;36 (2):1140-50. PMID: 25443289.

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Weisová P, Alvarez SP, Kilbride SM, et al. Latrepirdine is a potent activator of AMP-activated protein kinase and reduces neuronal excitability. Transl Psychiatry. 2013 Oct 22;3:e317. PMID: 24150226.

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