



LKT Laboratories, Inc.

P7C3A20

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Product Information

Product ID P0109

CAS No. 1235481-90-9

Chemical Name

Synonym

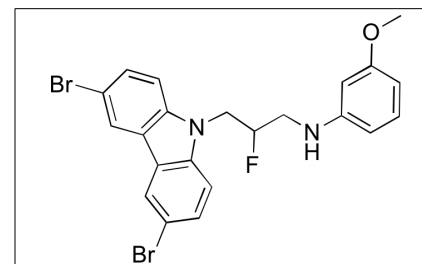
Formula $C_{22}H_{19}Br_2FN_2O$

Formula Wt. 506.21

Melting Point

Purity $\geq 94\%$

Solubility 10 mM in DMSO



Bulk quantities available upon request

Product ID	Size
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P0109	5 mg
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P0109	25 mg
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Store Temp Ambient

Ship Temp Ambient

Description P7C3A20 is a fluorinated aminopropyl carbazole; it is a more active analog of P7C3 that also exhibits antidepressant, cognition enhancing, and neuroprotective activities. In animal models of traumatic brain injury, P7C3A20 decreases brain contusion volume and improves motor function and cognitive ability. Additionally, P7C3A20 increases survival of dentate gyrus neurons in animal models of chronic social defeat stress. Like its parent compound, P7C3A20 also inhibits MPTP-induced neuronal death in animal models of Parkinson's disease and delays the onset and preserves motor function in animal models of amyotrophic lateral sclerosis (ALS).

References Walker AK, Rivera PD, Wang Q, et al. The P7C3 class of neuroprotective compounds exerts antidepressant efficacy in mice by increasing hippocampal neurogenesis. *Mol Psychiatry*. 2014 Apr 22. [Epub ahead of print]. PMID: 24751964.

Blaya MO, Bramlett HM, Naidoo J, et al. Neuroprotective efficacy of a proneurogenic compound after traumatic brain injury. *J Neurotrauma*. 2014 Mar 1;31(5):476-86. PMID: 24070637.

De Jesús-Cortés H, Xu P, Drawbridge J, et al. Neuroprotective efficacy of aminopropyl carbazoles in a mouse model of Parkinson disease. *Proc Natl Acad Sci U S A*. 2012 Oct 16;109(42):17010-5. PMID: 23027934.

Tesla R, Wolf HP, Xu P, et al. Neuroprotective efficacy of aminopropyl carbazoles in a mouse model of amyotrophic lateral sclerosis. *Proc Natl Acad Sci U S A*. 2012 Oct 16;109(42):17016-21. PMID: 23027932.

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