



LKT Laboratories, Inc.

P7C3

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## Product Information

Product ID P0013

CAS No. 301353-96-8

Chemical Name 1-(3,6-dibromo-9H-carbazol-9-yl)-3-(phenylamino)propan-2-ol

Synonym

Formula  $C_{21}H_{18}Br_2N_2O$

Formula Wt. 474.2

Melting Point

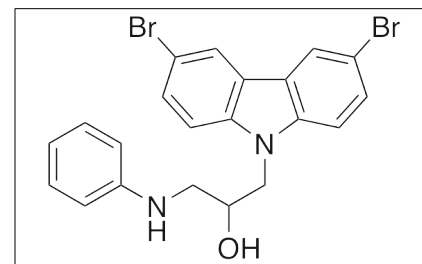
Purity  $\geq 98\%$

Solubility DMSO (30mg/ml)

Store Temp 4° C

Ship Temp Ambient

**Description** P7C3 is an aminopropyl carbazole that displays neuroprotective, antidepressant, and cognition enhancing activities, particularly in models of Parkinson's disease and amyotrophic lateral sclerosis (ALS). P7C3 promotes neurogenesis in vivo in the hippocampal dentate gyrus, preventing neuron apoptosis in newborn mice, and also prevents neuron death and cognitive decline in aged mice. P7C3 rescues TGF- $\beta$  ligand mutation-induced retinal apoptosis in vivo. In *C. elegans* models, this compound inhibits MPP<sup>+</sup>-mediated death of dopaminergic neurons. Also, when given prior to expected symptom onset, P7C3 delays disease progression in animal models of ALS.



**Bulk quantities available upon request**

| Product ID | Size  |
|------------|-------|
| P0013      | 1 mg  |
| P0013      | 5 mg  |
| P0013      | 25 mg |

**References** Asai-Coakwell M, March L, Dai XH, et al. Contribution of growth differentiation factor 6-dependent cell survival to early-onset retinal dystrophies. *Hum Mol Genet.* 2013 Apr 1;22(7):1432-42. PMID: 23307924.

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.

MacMillan KS, Naidoo J, Liang J, et al. Development of proneurogenic, neuroprotective small molecules. *J Am Chem Soc.* 2011 Feb 9;133(5):1428-37. PMID: 21210688

Pieper AA, Xie S, Capota E, et al. Discovery of a proneurogenic, neuroprotective chemical. *Cell.* 2010 Jul 9;142(1):39-51. PMID: 20603013.

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