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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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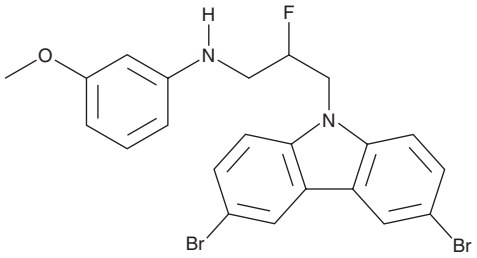
PRODUCT INFORMATION

P7C3-A20

Item No. 24201

CAS Registry No.:	1235481-90-9
Formal Name:	3,6-dibromo-β-fluoro-N-(3-methoxy phenyl)-9H-carbazole-9-propanamine
MF:	$C_{22}H_{19}Br_2FN_2O$
FW:	506.2
Purity:	≥95%
UV/Vis.:	λ_{max}: 212, 234, 242, 270, 302 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

P7C3-A20 is supplied as a crystalline solid. A stock solution may be made by dissolving the P7C3-A20 in the solvent of choice. P7C3-A20 is soluble in the organic solvent DMSO, which should be purged with an inert gas, at a concentration of approximately 10 mM.

Description

P7C3-A20 is a derivative of P7C3 (Item No. 16682) that has proneurogenic and neuroprotective activity.[1] It increases proliferation in the subgranular zone (SGZ) of the adult mouse dentate gyrus in a dose-dependent manner when administered at doses ranging from 0.1 to 10 µM. It also protects U2OS cells from calcium-induced mitochondrial dissolution. In a rat model of traumatic brain injury, P7C3-A20 (10 mg/kg, i.p., twice daily for one week) decreases contusion volume, increases proliferation in the SGZ, and decreases the latency to reach the platform in the Morris water maze to sham surgery control levels.[2] It also prevents or reverses dopaminergic cell death and motor deficits in a 6-OHDA rat model of Parkinson's disease.[3]

References

1. Pieper, A.A., Xie, S., Capota, E., *et al.* Discovery of a proneurogenic, neuroprotective chemical. *Cell* **142(1)**, 39-51 (2010).
2. Blaya, M.O., Bramlett, H.M., Naidoo, J., *et al.* Neuroprotective efficacy of a proneurogenic compound after traumatic brain injury. *J. Neurotrauma* **31(5)**, 476-486 (2014).
3. De Jesús-Cortés, H., Miller, A.D., Britt, J.K., *et al.* Protective efficacy of P7C3-S243 in the 6-hydroxydopamine model of Parkinson's disease. *NPJ Parkinsons Dis.* **1**, 15010 (2015).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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