

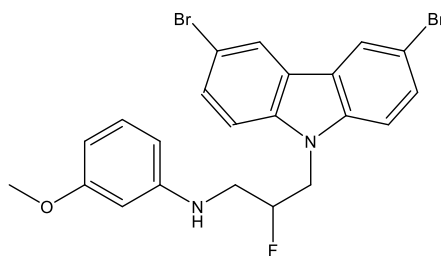
Catalog # 10-3414

P7C3-A20

CAS# 1235481-90-9

3,6-Dibromo-β-fluoro-N-(3-methoxyphenyl)-9H-carbazole-9-propanamine

Lot # X109762



P7C3-A20 is a neuroprotective and proneurogenic agent acting via NAMPT stimulation.¹ Displays neuroprotective and promotes endogenous reparative functions after traumatic brain injury (TBI).² Furthermore it repairs the blood-brain barrier, arrests chronic neurodegeneration and restores cognition after TBI in a mouse model.³ P7C3-A20 exerts neuroprotective effects in a hypoxic-ischemic encephalopathy model.⁴ Suppresses neuroinflammation and protects retinal ganglion cells from optic nerve crush in a rat model.⁵

- 1) LoCoco *et al.* (2017), *Pharmacological augmentation of nicotinamide phosphoribosyltransferase (NAMPT) protects against paclitaxel-induced peripheral neuropathy*; *Elife*, **6** e29626
- 2) Blaya *et al.* (2014), *Neuroprotective efficacy of a proneurogenic compound after traumatic brain injury*; *J. Neurotrauma*, **31** 476
- 3) Vázquez-Rosa *et al.* (2020), *P7C3-A20 treatment one year after TBI in mice repairs the blood-brain barrier, arrests chronic neurodegeneration, and restores cognition*; *Proc. Natl. Acad. Sci. USA*, **117** 27667
- 4) Bai *et al.* (2020), *The Small Molecule P7C3-A20 Exerts Neuroprotective Effects in a Hypoxic-ischemic Encephalopathy Model via Activation of PI3K/AKT/GSK3β Signaling*; *Neuroscience*, **441** 197
- 5) Oku *et al.* (2017), *P7C3 Suppresses Neuroinflammation and Protects Retinal Ganglion Cells of Rats from Optic Nerve Crush*; *Invest. Ophthalmol. Vis. Sci.*, **58** 4877

PHYSICAL DATA

Molecular Weight:	506.21
Molecular Formula:	C ₂₂ H ₁₉ Br ₂ FN ₂ O
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (40 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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