



Catalog Number:	MC11017	Product Type:	Small Molecule
Bio-Activity:	NAMPT activator; Proneurogenic agent	CAS #:	1235481-90-9
Research Categories:	Neuroscience, cell death, stem cells	Chemical Name:	3,6-dibromo- β -fluoro-N-(3-methoxyphenyl)-9H-carbazole-9-propanamine
Solubility:	Soluble in DMSO (up to 40 mg/ml)	Molecular Formula:	C22H19Br2FN2O
Purity:	> 98%	Molecular Weight:	506.2
Format:	Powder	Ship Temp:	Ambient
Storage:	-20°C		

Application Notes

Description/Data:

P7C3-A20 is a neuroprotective and proneurogenic agent impacting NAMPT stimulation (1). It has been shown to display neuroprotection and promotes endogenous reparative functions after traumatic brain injury (TBI) (2). P7C3-A20 has been shown to repair the blood-brain barrier, arrests chronic neurodegeneration and restores cognition one year after TBI in a mouse model (3). In a hypoxic-ischemic encephalopathy model, P7C3-A20 displays neuroprotective qualities (4). In rat models, P7C3-A20 inhibits neuroinflammation and guards retinal ganglion cells from optic nerve crush (5).

References:

- 1) PM LoCoco et al. *Elife* 2017 6:e29626
- 2) MO Blaya et al. *J. Neurotrauma*. 2014 31:476
- 3) E Vazquez-Rosa et al. *Proc. Natl. Acad. Sci. USA* 2020 117:27667
- 4) J Bai et al. *Neuroscience* 2020 441:197
- 5) H Oku et al. *Invest. Ophthalmol. Vis. Sci.* 2017 58:4877

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