DATA SHEET

Product Name:	P7C3
Catalog #:	N-3004
Alt:	1-(3,6-dibromo-9H-carbazol-9-yl)-3-(phenylamino)propan-2-ol
Molecular Mass:	474.2 C21H18Br2N2O
Analysis:	>98% (TLC); NMR (Conforms)
Supplied As:	Off-white powder
Resuspension:	May be dissolved in DMSO (40 mg/ml)
Storage:	Store desiccated as supplied at ambient temperature for up to 2 years. Store solutions at -20°C for up to 2 months.
Description:	P7C3 exerts proneurogenic activity by protecting newborn neurons from apoptosis. Prolonged administration to aged rats impedes neuronal death and preserves cognitive capacity[1]. Delays disease progression in G93A-SOD2 mutant mouse model of amyotrophic lateral sclerosis[2]. Blocks MPTP-mediated cell death of dopaminergic neurons in the substantia nigra of adult mice, a model of Parkinson disease[3]. Restores hippocampal neurogenesis in a mouse model of Down Syndrome[4]. The mechanism of action involves activation of nicotinamide phosphoribosyltransferase (NAMPT) with concomitant increase of intracellular levels of NAD[5]. Active *in vivo*.
References:	1. Pieper, A.A., et al., (2010) Cell, *142*: 39 2. Tesla, T., et al., (2012) Proc. Natl. Acad. Sci. USA, *109*: 17016 3. De Jesus-Cortes, H., et al., (2012) Proc. Natl. Acad. Sci. USA, *109*: 17010 4. Latchney, S.E., et al., (2015) Neurosci. Lett., *591*: 86 5. Wang, G., et al., (2014) Cell, *158*: 1324

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