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P7C3

产品编号: D50715
CAS: 301353-96-8
分子式: C21H18Br2N2O
纯度: ≥98%
InChi: InChI=1S/C21H18Br2N2O/c22-14-6-8-20-18(10-14)19-11-15(23)7-9-21(19)25(20)13-17(26)12-24-16-4-2-1-3-5-16/h1-11,17,24,26H,12-13H2
InChi Key: FZHHRERIIVOATI-UHFFFAOYSA-N
Smiles: OC(CNC1C=CC=CC=1)CN1C2=CC=C(Br)C=C2C2C=C(Br)C=CC1=2
外观: 固体粉末
作用通路: Others
溶解性: DMSO up to 100 mM
保存条件: Store in dry, dark place for one year.
产品介绍: P7C3 is a novel and potent pro-neurogenic, neuro-protective small molecule, orally available and brain penetrant, discovered from an in vivo screening in mice. It can protect newborn neurons in the dentate gyrus and stimulates the growth of new neurons. It can also enhance learning and memory in aged rats. P7C3 can preserve axonal integrity after injury, before neuronal cell death occurs, in a rodent model of blast-mediated traumatic brain injury (TBI). MOA study showed P7C3 could bind nicotinamide phosphoribosyltransferase (NAMPT), the rate-limiting enzyme involved in the conversion of nicotinamide into nicotinamide adenine dinucleotide (NAD). Administration of active P7C3 chemicals to cells treated with doxorubicin, which induces NAD depletion, led to a rebound in intracellular levels of NAD and concomitant protection from doxorubicin-mediated toxicity.