



Product Specification Sheet

Product Name: P7C3

Catalog Number: C7723-10 (powder)

Package Size: 10 mg

Technical information:

Chemical Formula: C₂₁H₁₈Br₂N₂O

CAS #: 301353-96-8

Molecular Weight: 474.19

Purity: >98%

Formulation: White solid

Solubility: Soluble in DMSO up to 100 mM

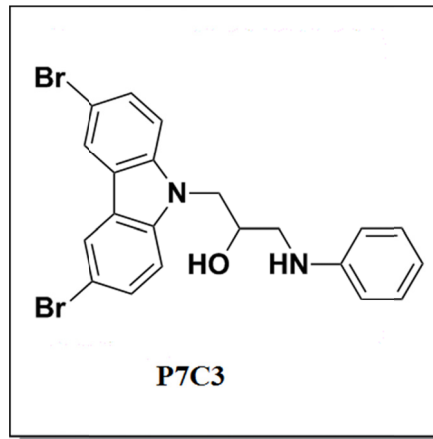
Chemical Name: 1-(3,6-dibromo-9H-carbazol-9-yl)-3-(phenylamino)propan-2-ol

Storage: Store solid powder at 4°C desiccated;
Store DMSO solution at -20°C.

Handling: For C7723-10 (powder), add 2.11 mL of DMSO to make 10 mM solution.

Biological Activity: P7C3 is a proneurogenic, neuroprotective small molecule with favorable pharmacological properties discovered from an in vivo screen. In vivo studies gave evidence that P7C3 exerts its proneurogenic activity by protecting newborn neurons from apoptosis. Prolonged administration of P7C3 to *nps3*^{-/-} mice corrected their deficits by normalizing levels of apoptosis of newborn hippocampal neurons. Prolonged administration of P7C3 to aged rats also enhanced neurogenesis in the dentate gyrus, impeded neuron death, and preserved cognitive capacity as a function of terminal aging.

- Reference:**
1. Andrew A Pieper, et al. Discovery of a proneurogenic, neuroprotective chemical. *Cell* (2010), 142(1), 39-51.
 2. Karen S MacMillan, et al. Development of Proneurogenic, Neuroprotective Small Molecules. *Journal of the American Chemical Society* (2011), 133(5), 1428-1437.



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