

**Product Name:** P7C3

**Catalog No.:** 4076

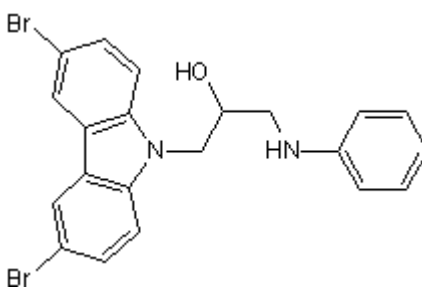
**Batch No.:** 1

CAS Number: 301353-96-8

IUPAC Name: 3,6-Dibromo- $\alpha$ -[(phenylamino)methyl]-9*H*-carbazole-9-ethanol

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>18</sub>Br<sub>2</sub>N<sub>2</sub>O  
**Batch Molecular Weight:** 474.19  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.28 (Ethyl acetate:Petroleum ether [1:3])  
**HPLC:** Shows 99.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	53.19	3.83	5.91
Found	53.06	3.79	6.04

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

NAMPT activator. Proneurogenic and neuroprotective. Protects newborn neurons in the dentate gyrus by mitigating cell death. Also enhances learning and memory in aged rats. Orally available and brain penetrant. Also reverts doxorubicin-mediated toxicity in osteosarcoma cells and restores intracellular NAD levels.

**Physical and Chemical Properties:**

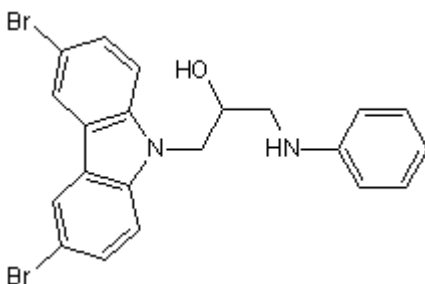
Batch Molecular Formula: C<sub>21</sub>H<sub>18</sub>Br<sub>2</sub>N<sub>2</sub>O

Batch Molecular Weight: 474.19

Physical Appearance: Off-white solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**Pieper et al** (2010) Discovery of a proneurogenic, neuroprotective chemical. *Cell* **142** 39. PMID: 20603013.

**Wang et al** (2014) P7C3 neuroprotective chemicals function by activating the rate-limiting enzyme in NAD salvage. *Cell* **158** 1324. PMID: 25215490.

**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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