

**Product Name:** AMD 3465 hexahydrobromide

**Catalog No.:** 4179

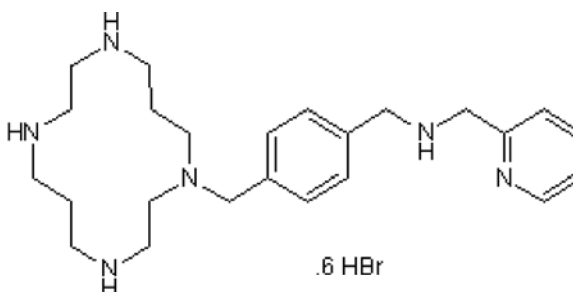
**Batch No.:** 2

CAS Number: 185991-07-5

IUPAC Name: N-[[4-(1,4,8,11-Tetraazacyclotetradec-1-ylmethyl)phenyl]methyl]-2-pyridinemethanamine hexahydrobromide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>24</sub>H<sub>38</sub>N<sub>6</sub>.6HBr  
**Batch Molecular Weight:** 896.07  
**Physical Appearance:** Off White solid  
**Solubility:** water to 50 mM  
DMSO to 25 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 97.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	32.17	4.95	9.38
Found	32.38	5.2	9.53

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

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**Description:**

Potent, selective CXCR4 antagonist; exhibits 8-fold higher affinity than AMD 3100 (Cat.No. 3299). Inhibits SDF-1 $\alpha$ -ligand binding ( $K_i$  = 41.7 nM). Potently inhibits HIV cell entry in vitro; causes leukocytosis and mobilizes haematopoietic stem cells in vivo.

**Physical and Chemical Properties:**

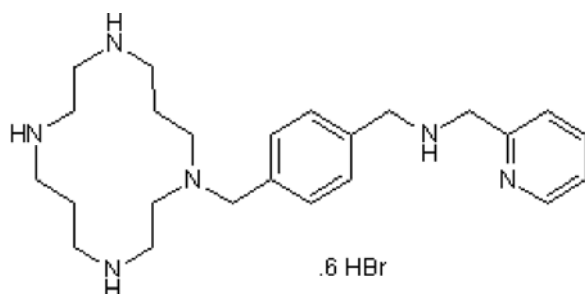
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Batch Molecular Weight: 896.07

Physical Appearance: Off White solid

**Minimum Purity:**  $\geq$ 97%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 50 mM

DMSO to 25 mM

CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival.

**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.

**References:**

**Bodart et al** (2009) Pharmacology of AMD3465: A small molecule antagonist of the chemokine receptor CXCR4. *Biochem.Pharmacol.* **78** 993. PMID: 19540208.

**Rosenkilde et al** (2007) Molecular mechanism of action of monocyclam versus bicyclam non-peptide antagonists of the CXCR4 chemokine receptor. *J.Biol.Chem.* **282** 27354. PMID: 17599916.

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