

**Product Name:** (±)-AMG 487

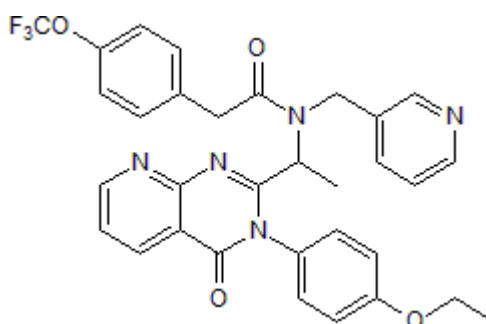
**Catalog No.:** 4487

**Batch No.:** 1

**IUPAC Name:** *N*-1-[(3-4-(Ethoxyphenyl)-3,4-dihydro-4-oxopyrido[2,3-*d*]pyrimidin-2-yl)ethyl]-*N*-(3-pyridinylmethyl)-4-(trifluoromethoxy)benzeneacetamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>32</sub>H<sub>28</sub>F<sub>3</sub>N<sub>5</sub>O<sub>4</sub>·¾H<sub>2</sub>O  
**Batch Molecular Weight:** 617.1  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.7 (Dichloromethane:Methanol:Ammonia soln. [90:9:1])  
**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.28	4.82	11.35
Found	62.31	4.66	11.43

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**Description:**

Antagonist of CXCR3; inhibits binding of <sup>125</sup>I-IP-10 and <sup>125</sup>I-ITAC to CXCR3 (IC<sub>50</sub> values are 8.0 and 8.2 nM respectively). Inhibits CXCR3-mediated cell migration by the chemokines IP-10, ITAC and MiG in vitro (IC<sub>50</sub> values are 8, 15 and 36 nM respectively). Also shown to inhibit lung metastasis in a mouse model of metastatic breast cancer.

**Physical and Chemical Properties:**

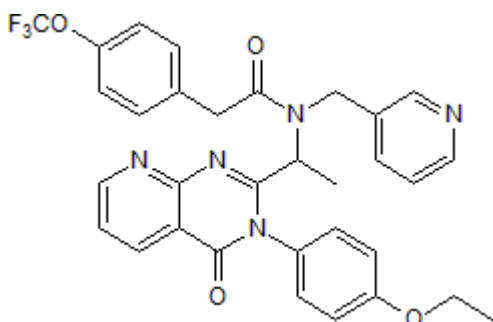
Batch Molecular Formula: C<sub>32</sub>H<sub>28</sub>F<sub>3</sub>N<sub>5</sub>O<sub>4</sub>·¾H<sub>2</sub>O

Batch Molecular Weight: 617.1

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

This compound is racemic.

**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:**

**Walser et al** (2006) Antagonism of CXCR3 inhibits lung metastasis in a murine model of metastatic breast cancer. *Cancer Res.* **66** 7701. PMID: 16885372.

**Johnson et al** (2007) Discovery and optimization of a series of quinazolinone-derived antagonists of CXCR3. *Bioorg.Med.Chem.Lett.* **17** 3339. PMID: 17448658.

**Cambien et al** (2009) Organ-specific inhibition of metastatic colon carcinoma by CXCR3 antagonism. *Br.J.Cancer* **100** 1755. PMID: 19436305.

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