

**Product Name:** AMG 333

**Catalog No.:** 6874

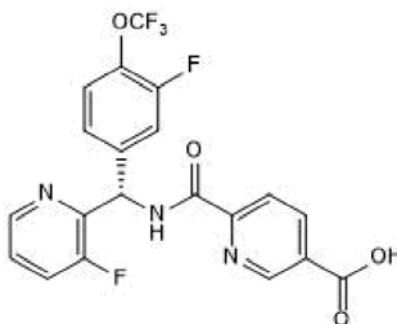
**Batch No.:** 1

CAS Number: 1416799-28-4

IUPAC Name: 6-[[[(S)-(3-Fluoro-2-pyridinyl)[3-fluoro-4-(trifluoromethoxy)phenyl]methyl]amino]carbonyl]-3-pyridinecarboxylic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>20</sub>H<sub>12</sub>F<sub>5</sub>N<sub>3</sub>O<sub>4</sub>  
**Batch Molecular Weight:** 453.33  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
ethanol to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.23 (Ethyl acetate:Methanol [9:1])  
**HPLC:** Shows 99.6% purity  
**Chiral HPLC:** Shows 99.52% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	52.99	2.67	9.27
Found	53.03	2.56	9.25

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

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**Description:**

Potent and selective TRPM8 antagonist (IC<sub>50</sub> values are 13 and 20 nM for hTRPM8 and rTRPM8, respectively). Displays high selectivity over other TRP channels (IC<sub>50</sub> >20 μM, TRPV1/V3/V4/A1). Inhibits icilin-induced wet-dog shake in rats and suppresses cold-induced increases in blood pressure in the rat cold-pressor test.

**Physical and Chemical Properties:**

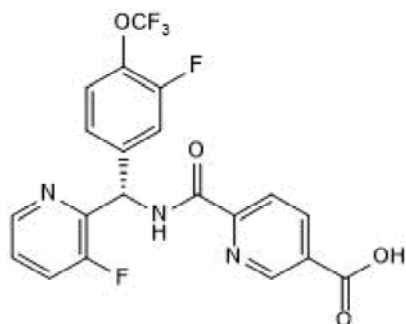
Batch Molecular Formula: C<sub>20</sub>H<sub>12</sub>F<sub>5</sub>N<sub>3</sub>O<sub>4</sub>

Batch Molecular Weight: 453.33

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol 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.

**References:**

Horne *et al* (2018) Discovery of TRPM8 antagonist (S)-6-(((3-Fluoro-4-(trifluoromethoxy)phenyl)(3-fluoropyridin-2-yl)methyl)carbonyl)nicotinic acid (AMG 333), a clinical candidate for the treatment of migraine. *J.Med.Chem.* **61** 8186. PMID: 30148953.

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