

Product Name: AMG 333

Catalog No.: 6874

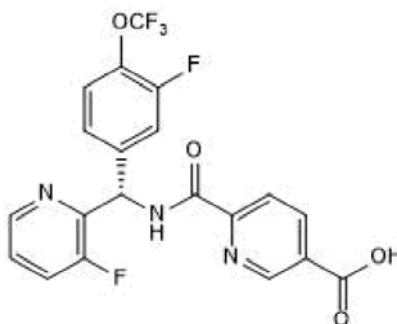
Batch No.: 1

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 ₂₀ H ₁₂ F ₅ N ₃ O ₄
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 _f = 0.23 (Ethyl acetate:Methanol [9:1])
HPLC:	Shows 99.6% purity
Chiral HPLC:	Shows 99.52% purity
¹H 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:

AMG 333 is a potent and selective TRPM8 antagonist (IC₅₀ values are 13 and 20 nM for hTRPM8 and rTRPM8, respectively). Displays high selectivity over other TRP channels (IC₅₀ >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:

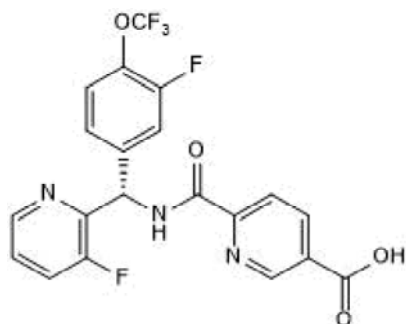
Batch Molecular Formula: C₂₀H₁₂F₅N₃O₄

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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