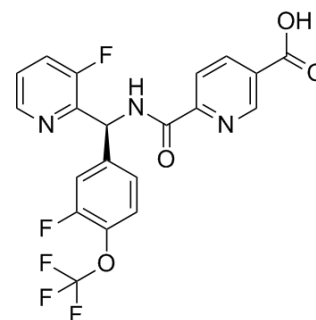


AMG 333

Cat. No.:	HY-112703		
CAS No.:	1416799-28-4		
Molecular Formula:	C ₂₀ H ₁₂ F ₅ N ₃ O ₄		
Molecular Weight:	453.32		
Target:	TRP Channel		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 125 mg/mL (275.74 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.2059 mL	11.0297 mL	22.0595 mL
	5 mM	0.4412 mL	2.2059 mL	4.4119 mL
	10 mM	0.2206 mL	1.1030 mL	2.2059 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.17 mg/mL (4.79 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.17 mg/mL (4.79 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.17 mg/mL (4.79 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

AMG 333 is a potent and highly selective TRPM8 antagonist with an IC₅₀ of 13 nM.

IC₅₀ & Target

IC₅₀: 13 nM (TRPM8)^[1]

REFERENCES

[1]. Horne DB, et al. Discovery of TRPM8 Antagonist (S)-6-(((3-Fluoro-4-(trifluoromethoxy)phenyl)(3-fluoropyridin-2-yl)methyl)carbamoyl)nicotinic Acid (AMG 333), a Clinical Candidate for the Treatment of Migraine. J Med Chem. 2018 Sep 27;61(18):8186-8201.

Caution: Product has not been fully validated for medical applications. For research use only.

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