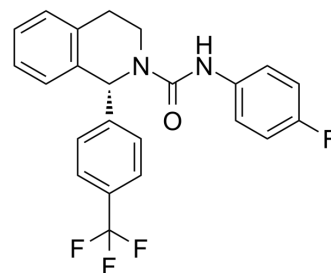


AMG8788

Cat. No.:	HY-104061
CAS No.:	1159996-43-6
Molecular Formula:	C ₂₃ H ₁₈ F ₄ N ₂ O
Molecular Weight:	414.4
Target:	TRP Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AMG8788 is a potent, selective, orally active antagonist of TRPM8 with an IC ₅₀ of 63.2 nM ^[1] .						
IC₅₀ & Target	TRPM8 63.2 nM (IC ₅₀)	TRPA1 1 μM (IC ₅₀)					
In Vitro	AMG8788 potently inhibits the menthol and cold-induced increase in intracellular calcium in cells expressing rat TRPM8, the plasma half-life (T _{1/2}) in rats is 6.7 h ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.						
In Vivo	AMG8788 (30 mg/kg; p.o.; once) elicits a transient decrease in body temperature (T _b) in rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.						
	Animal Model:	Male Sprague Dawley rats weighing 200–350 g (6–12 weeks of age) ^[1]					
	Dosage:	30 mg/kg					
	Administration:	Oral administration, once					
	Result:	Produced a significant decrease of T _b from 40 min to 70 min post dosing. Effect of AMG8788 on T _b in rats. P value is for comparing compound administered rat T _b with vehicle administered rat T _b . End of the study plasma concentration is reported in μM. Asterisk indicates one-way ANOVA followed by Dunnett's MCT					
		Compound	Dose mg/kg (route)	Max T _b decrease (°C)	P value *	Time post dosing (min)	Plasma concentration
		AMG8788	30 (p.o.)	0.53	p < 0.05	40	1.5 ± 0.6

REFERENCES

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA