

AMG9810

#Cat: NB-64-39996-1mL	Size: 1 mL
#Cat: NB-64-39996-5mg	Size: 5 mg
#Cat: NB-64-39996-10mg	Size: 10 mg
#Cat: NB-64-39996-25mg	Size: 25 mg
#Cat: NB-64-39996-50mg	Size: 50 mg
#Cat: NB-64-39996-100mg	Size: 100 mg
#Cat: NB-64-39996-500mg	Size: 500 mg

Chemical Properties:

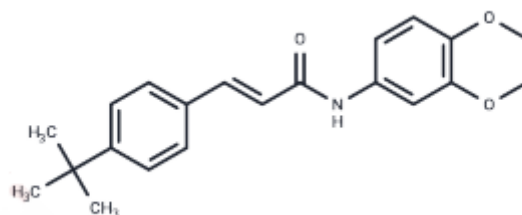
CAS No: 545395-94-6

Formula: C₂₁H₂₃NO₃

Molecular Weight: 337.41

Appearance: Solid

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description:

Description	AMG 9810 is a competitive antagonist of capsaicin activation of the vanilloid receptor 1 (TRPV1) (IC50s = 24.5 and 85.6 nM for human and rat TRPV1, respectively).
Targets (IC50)	TRP/TRPV Channel
In vivo	In a rat model of inflammatory pain induced by intraplantar injection of complete Freund's adjuvant, 30-100 mg/kg AMG 9810 reverses thermal and mechanical hyperalgesia[3].

Solubility Information

Solubility	DMSO: 40 mg/mL (118.55 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9638 mL	14.8188 mL	29.6375 mL
5 mM	0.5928 mL	2.9638 mL	5.9275 mL
10 mM	0.2964 mL	1.4819 mL	2.9638 mL
50 mM	0.0593 mL	0.2964 mL	0.5928 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Mcdougle D R , Watson J E , Abdeen A A , et al. Anti-inflammatory ω -3 endocannabinoid epoxides[J]. Proceedings of the National Academy of Sciences, 2017:201610325.

Wolf F I , Vsimonacci T . Effect of transient receptor potential vanilloid 1 (TRPV1) receptor antagonist compounds SB705498, BCTC and AMG9810 in rat models of thermal hyperalgesia measured with an increasing-temperature water bath.[J]. European Journal of Pharmacology, 2010, 641(2):135-141.

Gavva NR, et al. AMG9810 [(E)-3-(4-t-butylphenyl)-N-(2,3-dihydrobenzo[b][1,4] dioxin-6-yl)acrylamide], a novel vanilloid receptor 1 (TRPV1) antagonist with antihyperalgesic properties. J Pharmacol Exp Ther. 2005 Apr;313(1): 474-84

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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