

AMG9810

## Chemical Properties

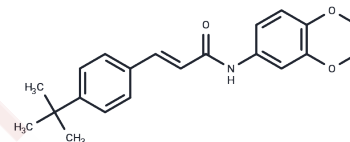
CAS No. : 545395-94-6

Formula: C<sub>21</sub>H<sub>23</sub>NO<sub>3</sub>

Molecular Weight: 337.41

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

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	AMG 9810 is a competitive antagonist of capsaicin activation of the vanilloid receptor 1 (TRPV1) (IC <sub>50</sub> s = 24.5 and 85.6 nM for human and rat TRPV1, respectively).
Targets(IC <sub>50</sub> )	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: 117.5 mg/mL (348.24 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.93 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Mcdougale D R , Watson J E , Abdeen A A , et al. Anti-inflammatory  $\omega$ -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.

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