

**Product Name:** AMG 9810

**Catalog No.:** 2316

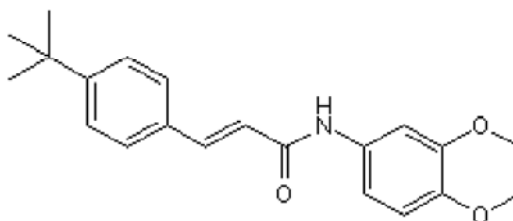
**Batch No.:** 3

CAS Number: 545395-94-6

IUPAC Name: (2E)-N-(2,3-Dihydro-1,4-benzodioxin-6-yl)-3-[4-(1,1-dimethylethyl)phenyl]-2-propenamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>23</sub>NO<sub>3</sub>.  
**Batch Molecular Weight:** 337.42  
**Physical Appearance:** Beige solid  
**Solubility:** DMSO to 50 mM  
ethanol to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	74.75	6.87	4.15
Found	74.61	6.98	4.13

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

AMG 9810 is a potent and selective, competitive vanilloid TRPV1 receptor antagonist (IC<sub>50</sub> = 17 nM). Inhibits capsaicin-, proton-, heat- and endogenous ligand-induced activation of human and rat recombinant TRPV1 receptors. Displays antihyperalgesic properties in a rat model of inflammatory pain.

**Physical and Chemical Properties:**

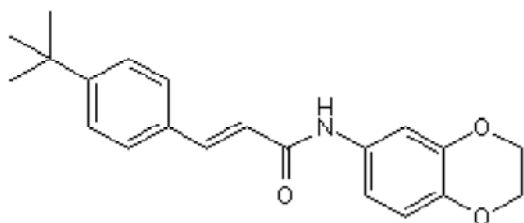
Batch Molecular Formula: C<sub>21</sub>H<sub>23</sub>NO<sub>3</sub>.

Batch Molecular Weight: 337.42

Physical Appearance: Beige solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 50 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:**

**Mouchbahani-Constance et al** (2018) Lionfish venom elicits pain predominantly through the activation of nonpeptidergic nociceptors. *Pain*. **159** 2255. PMID: 29965829.

**Doherty et al** (2005) Discovery of potent, orally available vanilloid receptor-1 antagonists. Structure-activity relationship of *N*-aryl cinnamides. *J.Med.Chem.* **48** 71. PMID: 15634002.

**Gavva et al** (2005) AMG 9810 [(*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.* **313** 474. PMID: 15615864.

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