

Certificate of Analysis

Product Name: AMG 9810

Catalog No.: 2316

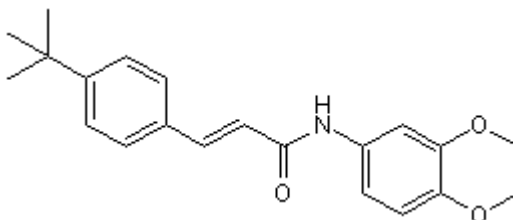
Batch No.: 2

CAS Number: 545395-94-6

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₃NO₃
Batch Molecular Weight: 337.42
Physical Appearance: Beige solid
Solubility: DMSO to 50 mM
 ethanol to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon Hydrogen Nitrogen | | |
|-------------|--------------------------|------|------|
| Theoretical | 74.75 | 6.87 | 4.15 |
| Found | 74.67 | 6.87 | 4.14 |

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

Product Name: AMG 9810

Catalog No.: 2316

Batch No.: 2

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

Description:

Potent and selective, competitive vanilloid TRPV1 receptor antagonist (IC₅₀ = 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:

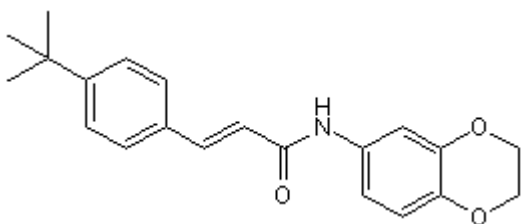
Batch Molecular Formula: C₂₁H₂₃NO₃

Batch Molecular Weight: 337.42

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate 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:

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.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956