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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{21}H_{23}NO_{3}  
Batch Molecular Weight: 337.42  
Physical Appearance: Beige solid  
Solubility: DMSO to 50 mM, ethanol to 100 mM  
Storage: Desiccate at +4°C

2. ANALYTICAL DATA

HPLC: Shows 99.1% purity  
\(^1\text{H NMR:}\) Consistent with structure  
Mass Spectrum: Consistent with structure  
Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>74.75</td>
<td>74.67</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>6.87</td>
<td>6.87</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>4.15</td>
<td>4.14</td>
</tr>
</tbody>
</table>
Product Information

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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%

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: