1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** $\text{C}_{21}\text{H}_{23}\text{NO}_3$
- **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
- **$^1$H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  
<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
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<tbody>
<tr>
<td>Theoretical</td>
<td>74.75</td>
<td>6.87</td>
<td>4.15</td>
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<tr>
<td>Found</td>
<td>74.67</td>
<td>6.87</td>
<td>4.14</td>
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</table>
Product Name: AMG 9810
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 (IC\(_{50}\) = 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\(_{21}\)H\(_{23}\)NO\(_3\)
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: