Product Name: (E)-Capsaicin  
CAS Number: 404-86-4  
IUPAC Name: (E)-N-[(4-Hydroxy-3-methoxyphenyl)methyl]-8-methyl-6-nonenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batch Molecular Formula</td>
<td>C&lt;sub&gt;18&lt;/sub&gt;H&lt;sub&gt;27&lt;/sub&gt;NO&lt;sub&gt;3&lt;/sub&gt;</td>
</tr>
<tr>
<td>Batch Molecular Weight</td>
<td>305.42</td>
</tr>
<tr>
<td>Physical Appearance</td>
<td>White solid</td>
</tr>
<tr>
<td>Solubility</td>
<td>DMSO to 50 mM</td>
</tr>
<tr>
<td></td>
<td>Ethanol to 50 mM</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at RT</td>
</tr>
</tbody>
</table>

2. ANALYTICAL DATA

- **HPLC**: Shows 99.7% purity
- **<sup>1</sup>H NMR**: Consistent with structure
- **Mass Spectrum**: Consistent with structure
- **Microanalysis**: Carbon Hydrogen Nitrogen  
  - Theoretical: 70.79 8.91 4.59  
  - Found: 70.89 8.8 4.62

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

bio-techn.com  
info@bio-techn.com  
techsupport@bio-techn.com

North America  
Tel: (800) 343 7475

China  
info.cn@bio-techn.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
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Description:
Prototypic vanilloid receptor agonist (pEC50 values are 7.97 and 7.10 at rat and human VR1 receptors respectively). Excites a subset of primary afferent sensory neurons, with subsequent antinoceptive and anti-inflammatory effects. Reversibly inhibits aggregation of platelets. Also available as part of the Vanilloid TRPV1 Receptor Tocriset™.

Physical and Chemical Properties:
Batch Molecular Formula: C18H27NO3
Batch Molecular Weight: 305.42
Physical Appearance: White solid
Minimum Purity: >98%

Storage:
Store at RT

Solubility & Usage Info:
DMSO to 50 mM
ethanol to 50 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: