**Product Name:** Dihydrocapsaicin

**Catalog Number:** T2163

**CAS Number:** 19408-84-5

**Molecular Formula:** C18H29NO3

**Molecular Weight:** 307.43

**Description:** Dihydrocapsaicin is isolated from Capsicum fruit. Capsaicin is the primary active component of the heat and pain-eliciting lipid soluble fraction of the Capsicum pepper. Like capsaicin, dihydrocapsaicin is an irritant. Capsaicin is found in natural hot pepper extracts along with a number of impurities, including dihydrocapsaicin and several lesser impurities. Separation by HPLC is required in order to obtain pure dihydrocapsaicin. Dihydrocapsaicin represents about 10% of the compound present in commercial preparations purporting to be pure capsaiacin, but it has about the same pungency as capsaicin. VR1 (vanilloid receptor 1) is a heat activated calcium ion channel which functions as a part of the normal nociceptive pain pathway. Capsaicin elicits a sensation of burning pain by activation of VR1 on small, non-myelinated polymodal C-type nociceptive nerve fibers. The potency of dihydrocapsaicin at VR1 appears equivalent to capsaicin. Antioxidant. Reduces oxidation of serum lipids. Mutagenic. Dihydrocapsaicin is an activator of VR1.

**Storage:** 2 years -80°C in solvent; 3 years -20°C powder;

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<thead>
<tr>
<th>Solubility</th>
<th>DMSO</th>
<th>32.5 mM</th>
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<td>( &lt; 1 mg/ml refers to the product slightly soluble or insoluble )</td>
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| Receptor (IC50) | VR1 |

**Reference**


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Information for product storage and handling is indicated on the product datasheet. Targetmol products are stable for long term under the recommended storage conditions. Our products may be shipped under different conditions as many of them are stable in the short-term at higher or even room temperatures. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, please follow the storage recommendations on the product data sheet.