**Product Name**: DAMGO  
**Catalog Number**: T4351  
**CAS Number**: 78123-71-4  
**Molecular Formula**: C26H35N5O6  
**Molecular Weight**: 513.60

**Description**: DAMGO is an opioid receptor agonist with the ability to affect the locomotive activity in rodents. Possible analgesic agent due to μ-opioid receptor interaction.

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

**Solubility**

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Solubility</th>
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<tbody>
<tr>
<td>DMSO</td>
<td>33.33 mg/mL (64.90 mM), Need ultrasonic</td>
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</table>

( < 1 mg/ml refers to the product slightly soluble or insoluble )

**Receptor (IC50)**  
μ-opioid receptor

**In vivo Activity**

(1) DAMGO inhibits GABAergic inputs in VTA-DA neurons at presynaptic sites; (2) effect of DAMGO on GABAergic inputs in VTA-DA neurons is inhibited by potassium channel blocker 4-aminopyridine (4-AP) and Gi protein inhibitor N-ethyl maleimide (NEM); (3) phospholipase A2 (PLA2) does not mediate the effect of DAMGO on GABAergic inputs in VTA-DA neurons, but mediates it in the periaqueductal gray (PAG); (4) multiple downstream signaling molecules of μ receptors do not mediate the effect of DAMGO on GABAergic inputs in VTA-DA neurons. These results suggest that DAMGO depresses inhibitory synaptic transmission via μ receptor-Gi protein-Kv channel pathway in VTA-DA neurons, but via μ receptor-PLA2 pathway in PAG

**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.