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## DATASHEET

### DAMGO

### Product overview

<b>Name</b>	DAMGO
<b>Cat No</b>	HB2409
<b>Alternative names</b>	DAGO
<b>Biological action</b>	Agonist
<b>Purity</b>	>95%
<b>Description</b>	Potent, selective $\mu$ -opioid receptor agonist

### Images



### Biological Data

<b>Biological description</b>	Potent, selective $\mu$ -opioid receptor agonist ( $K_i$ values are 2.0 and >1000 nM at $\mu$ , $\kappa$ and $\delta$ respectively). Shows antinociceptive activity.
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### Solubility & Handling

<b>Storage instructions</b>	-20 °C (desiccate)
<b>Solubility overview</b>	Soluble in water (4 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	H-Tyr-D-Ala-Gly-N(Me)Phe-Gly-ol
<b>Molecular Weight</b>	513.7
<b>Chemical structure</b>	
<b>Molecular Formula</b>	$C_{26}H_{35}N_5O_6$
<b>CAS Number</b>	78123-71-4
<b>PubChem identifier</b>	5462471
<b>SMILES</b>	<chem>C[C@H](C(=O)NCC(=O)N(C)[C@@H](CC1=CC=CC=C1)C(=O)NCCO)NC(=O)[C@H](CC2=CC=C(C=C2)O)N</chem>
<b>InChI</b>	InChI=1S/C26H35N5O6/c1-17(30-25(36)21(27)14-19-8-10-20(33)11-9-19)24(35)29-16-23(34)31(2)22(26(37)28-12-13-32)15-18-6-4-3-5-7-18/h3-11,17,21-22,32-33H,12-16,27H2,1-2H3,(H,28,37)(H,2

InChiKey  
MDL number

9,35)(H,30,36)/t17-,21+,22+/m1/s1  
HPZJMUBDEAMBFI-WTNAPCKOSA-N  
MFCD00133215

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## References

### Pharmacological characterization of the cloned kappa-, delta-, and mu-opioid receptors.

Raynor et al (1994) Mol Pharmacol 45(2)

**PubMedID** [8114680](#)

### The $\mu$ -opioid receptor agonist DAMGO presynaptically suppresses solitary tract-evoked input to neurons in the rostral solitary nucleus.

Boxwell et al (2013) J Neurophysiol 109(11)

**PubMedID** [23486207](#)

### DAMGO in the central amygdala alleviates the affective dimension of pain in a rat model of inflammatory hyperalgesia.

Zhang et al (2013) Neuroscience 252

**PubMedID** [23994597](#)

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