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DATASHEET

DAMGO

Product overview

Name	DAMGO
Cat No	HB2409
Alternative names	DAGO
Biological action	Agonist
Purity	>95%
Description	Potent, selective μ-opioid receptor agonist

Images

Biological Data

Biological description	Potent, selective μ-opioid receptor agonist (K_i values are 2.0 and >1000 nM at μ, κ and δ respectively). Shows antinociceptive activity.

Solubility & Handling

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

Chemical Data

Chemical name	H-Tyr-D-Ala-Gly-N(Me)Phe-Gly-ol
Molecular Weight	513.7
Chemical structure	
Molecular Formula	$C_{26}H_{35}N_5O_6$
CAS Number	78123-71-4
PubChem identifier	5462471
SMILES	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
InChi	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

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

References

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

Raynor et al (1994) Mol Pharmacol 45(2)
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The μ-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
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