Product overview

Name: DAMGO
Cat No: HB2409
Short description: Potent, selective μ-opioid receptor agonist

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

Alternative names: DAGO

Biological action: Agonist

Properties

Chemical name: H-Tyr-D-Ala-Gly-N(Me)Phe-Gly-ol
Molecular Weight: 513.7

Molecular Formula: C₂₆H₃₅N₅O₆
CAS Number: 78123-71-4
PubChem identifier: 5462471
SMILES: C[C@H](C(=O)NCC(=O)N(C)[C@@H](CC≡C≡C≡C≡C)C(=O)NCCO)NC(=O)[C@H](CC2≡C=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,29,35)(H,30,36)/t17-,21+,22+/m1/s1
InChIKey: HPZJMUBDEAMBFI-WTNAPCKOSA-N
MDL number: MFCD00133215

Storing and Using Your Product

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.

References for DAMGO

Pharmacological characterization of the cloned kappa-, delta-, and mu-opioid receptors.
PubMedID: 8114680
The μ-opioid receptor agonist DAMGO presynaptically suppresses solitary tract-evoked input to neurons in the rostral solitary nucleus.


PubMedID: 23486207

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


PubMedID: 23994597