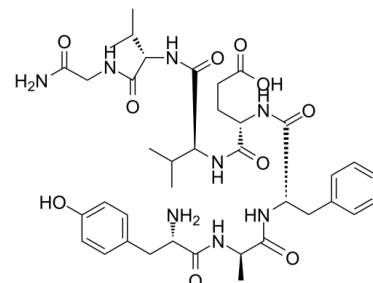


Data Sheet

Product Name:	Deltorphin 2
Cat. No.:	CS-7608
CAS No.:	122752-16-3
Molecular Formula:	C38H54N8O10
Molecular Weight:	782.88
Target:	Opioid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	H2O : 7.5 mg/mL (9.58 mM; Need ultrasonic and warming)



BIOLOGICAL ACTIVITY:

Deltorphin 2 is a selective peptide agonist for the **δ opioid receptor**. IC50 & Target: δ opioid receptor^[1] **In Vitro:** Deltorphin 2 ([D-Ala2]-Deltorphin II) is enzymatically stable, amphibian heptapeptides that has a high affinity and selectivity for delta-opioid receptor. Deltorphin 2 is the most selective natural delta opioid receptor agonist^[1].

References:

[1]. Thomas SA, et al. Structure-activity relationships of a series of [D-Ala2]deltorphin I and II analogues; in vitro blood-brain barrier permeability and stability. J Pharmacol Exp Ther. 1997 May;281(2):817-25.

CAIndexNames:

Glycinamide, L-tyrosyl-D-alanyl-L-phenylalanyl-L-α-glutamyl-L-valyl-L-valyl-

SMILES:

O=C(N[C@@H](CCC(O)=O)C(N[C@@H](C(C)C)C(N[C@@H](C(C)C)C(NCC(N)=O)=O)=O)[C@@H](NC([C@@H](C)NC([C@@H](N)CC1=CC=C(O)C=C1)=O)=O)CC2=CC=CC=C2

Caution: Product has not been fully validated for medical applications. For research use only.

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