

Recombinant Human PDYN

Cat. No. PDYN-31089TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human ProDynorphin with N terminal proprietary tag; Predicted MWt 31.13 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	50 amino acids
Description	The protein encoded by this gene is a preproprotein that is proteolytically processed to form the secreted opioid peptides beta-neoendorphin, dynorphin, leu-enkephalin, rimorphin, and leumorphin. These peptides are ligands for the kappa-type of opioid receptor. Dynorphin is involved in modulating responses to several psychoactive substances, including cocaine. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene.
Molecular Weight	31.130kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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cycles.

Sequences of amino acids

KRYGGFLRRIRPKLKWDNQKRYGGFLRRQFKVVTRSQEDPNAYSGELFDA

Sequence Similarities

Belongs to the opioid neuropeptide precursor family.

GENE INFORMATION

Gene Name PDYN prodynorphin [Homo sapiens]

Official Symbol PDYN

Synonyms

PDYN; prodynorphin; SCA23, spinocerebellar ataxia 23; proenkephalin-B; ADCA; beta neoendorphin; dynorphin; leu enkephalin; leumorphin; PENKB; preproenkephalin B; rimorphin;

Gene ID 5173

mRNA Refseq NM_001190892

Protein Refseq NP_001177821

MIM 131340

Uniprot ID P01213

Chromosome Location 20p13

Pathway Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (i)

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signalling events, organism-specific biosystem; G-protein activation, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem;

Function

opioid peptide activity;

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