



# Recombinant Protein Technical Manual

**Recombinant Human Proenkephalin-B/PDYN  
Protein (His Tag)**  
RPES0381

## Product Data:

**Product SKU:** RPES0381

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P01213

## Protein Information:

**Molecular Mass:** 27.3 kDa

**AP Molecular Mass:** 35 kDa

**Tag:** C-His

**Bio-activity:**

**Purity:** > 95% as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** ADCA; PENKB; SCA23; PDYN; Dynorphin B; Big Dyn

## Immunogen Information:

**Sequence:** Asp21-Ala254

## Background:

Proenkephalin-B(PDYN), belongs to the opioid neuropeptide precursor family. The N-terminal domain contains 6 conserved cysteines thought to be involved in disulfide bonding and/or processing. Leu-enkephalins, which is a type of Proenkephalin-B, compete with and mimic the effects of opiate drugs. They play a role in a number of physiologic functions, including pain perception and responses to stress. Dynorphin peptides differentially regulate the kappa opioid receptor. Dynorphin A has a typical opioid activity, it is 700 times more potent than Leu-enkephalin.