

Recombinant Human PENK protein, His & T7-tagged

Cat. No. PENK-8008H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PENK aa. (Glu25~Phe267 (Accession # P01210)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Glu25~Phe267
Description	This gene encodes a preproprotein that is proteolytically processed to generate multiple protein products. These products include the pentapeptide opioids Met-enkephalin and Leu-enkephalin, which are stored in synaptic vesicles, then released into the synapse where they bind to mu- and delta-opioid receptors to modulate the perception of pain. Other non-opioid cleavage products may function in distinct biological activities.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 31.9kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>90%
Characteristic	The isoelectric point is 5.3.

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Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	PENK proenkephalin [Homo sapiens (human)]
Official Symbol	PENK
Synonyms	PENK; proenkephalin; PE; PENK-A; proenkephalin-A; enkephalin A; peptide F; preproenkephalin
Gene ID	5179
mRNA Refseq	NM_001135690.2
Protein Refseq	NP_001129162.1

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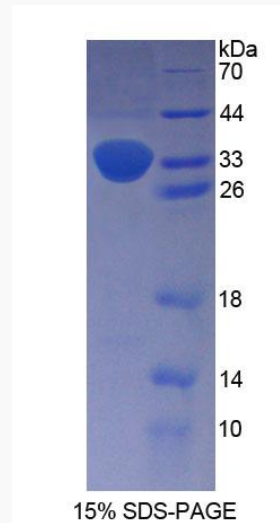
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UniProt ID

P01210

SDS-PAGE



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