

## Recombinant Human PENK protein, His & T7-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PENK aa. (Glu25~Phe267 (Accession # P01210)) fused with N-terminal His & T7 tag was produced in E. coli cells.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Glu25~Phe267
<b>Description</b>	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.
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 31.9kDa
<b>Endotoxin</b>	<1.0EU per 1ug (determined by the LAL method)
<b>Purity</b>	>90%
<b>Characteristic</b>	The isoelectric point is 5.3.

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<b>Applications</b>	SDS-PAGE; WB; ELISA; IP
<b>Stability</b>	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.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage Buffer</b>	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
<b>Reconstitution</b>	Reconstitute in sterile PBS, pH7.2-pH7.4.

## GENE INFORMATION

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

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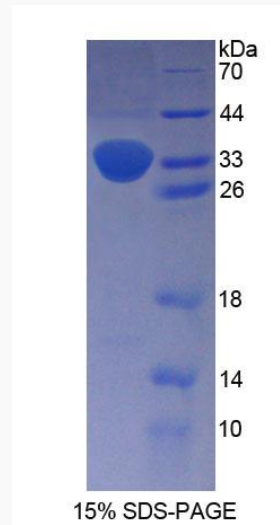
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UniProt ID

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SDS-PAGE



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