

## Product datasheet for **TP307563M**

### Enkephalin (PENK) (NM\_006211) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human proenkephalin (PENK), transcript variant 2, 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC207563 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MARFLTLCTWLLLLGPGLLATVRAECSQDCATCSYRLVRPADINFLACVMECEGKLP SLKIWETCKELLQ  
LSKPELPQDGTSTLRENSKPEESHLLAKRYGGFMKRYGGFMKKMDELYPMEPEEEANGSEILAKRYGGFM  
KKDAEEDDSLANSDDLKELLETDGDNRRSHHQDGSNNEEVSKRYGGFMRGLKRSPQLEDEAKELQKRY  
GGFMRRVGRPEWWMDYQKRYGGFLKRFAEALPSDEEGESYSKEVPEMEKRYGGFMRF

**SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 30.6 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_006202](#)

**Locus ID:** 5179

**UniProt ID:** [P01210](#)



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RefSeq Size: 1221

Cytogenetics: 8q12.1

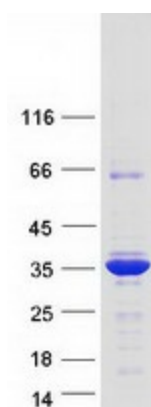
RefSeq ORF: 801

Synonyms: enkephalin A; preproenkephalin; proenkephalin

**Summary:** 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. [provided by RefSeq, Jul 2015]

**Protein Families:** Secreted Protein

### Product images:



Coomassie blue staining of purified PENK protein (Cat# [TP307563]). The protein was produced from HEK293T cells transfected with PENK cDNA clone (Cat# [RC207563]) using MegaTran 2.0 (Cat# [TT210002]).