

## 32-7791: Recombinant Human Proenkephalin-A (C-6His)

**Gene :** PENK  
**Gene ID :** 5179  
**Uniprot ID :** P01210

### Description

Source: Human Cells.  
MW :29.2kD.

Recombinant Human Proenkephalin-A is produced by our Mammalian expression system and the target gene encoding Glu25-Phe267 is expressed with a 6His tag at the C-terminus. Proenkephalin-A is a secreted protein that belongs to the opioid neuropeptide precursor family. Proenkephalin-A is an endogenous opioid polypeptide hormone which, via proteolytic cleavage, produces the enkephalin peptides [Met]enkephalin, and to a lesser extent, [Leu]enkephalin. Met- and Leu-enkephalins 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. Proenkephalin-A (114-133) and Proenkephalin-A (237-258) increase glutamate release in the striatum. Proenkephalin-A (114-133) decreases GABA concentration in the striatum.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.  
**Storage condition :** 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.  
**Amino Acid :** ECSQDCATCSYRLVRPADINFLACVMECEGKLPSLKIWETCKELLQLSKPELPQDGTSTLRENSKPEESHLLAKR  
YGGFMKRYGGFMKKMDELYPMEPEEEANGSEILAKRYGGFMKKDAEEDDSLANSDDLKELLETGDNRRSH  
HQDGSNNEEVSKRYGGFMRLKRSQLEDEAKELQKRYGGFMRRVGRPEWWMDYQKRYGGFLKRFAEAL  
PSDEEGESYSKEVPEMEKRYGGFMRFVDHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.