



Recombinant Protein Technical Manual
Recombinant Human Proenkephalin-A/PENK Protein
(His Tag)
RPES2688

Product Data:

Product SKU: RPES2688

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P01210

Protein Information:

Molecular Mass: 29.2 kDa

AP Molecular Mass: 36 kDa

Tag: C-6His

Bio-activity:

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

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

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°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 20mM PB,150mM NaCl,pH7.4.

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

Application:

Synonyms: Proenkephalin-A; Synenkephalin; Met-Enkephalin; Leu-Enkephalin; PENK

Immunogen Information:

Sequence: Glu25-Phe267

Background:

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 (11433) and Proenkephalin-A (237-258) increase glutamate release in the striatum. Proenkephalin-A (11433) decreases GABA concentration in the striatum.