

NPY Protein, Human, Recombinant (His)

General Information

Synonyms:	Pro-Neuropeptide Y;Neuropeptide Y;NPY;C-Flanking Peptide of NPY;Neuropeptide Tyrosine; CPON
Protein Construction:	Tyr29-Trp97
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P01303
Molecular Weight:	13 KDa (reducing condition)
AA Sequence:	Tyr29-Trp97

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 150mM NaCl, pH 7.4

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Pro-Neuropeptide Y (NPY) is a member of the NPY family. NPY is a secreted protein and is one of the most abundant peptides in the nervous system. It also can be found in some chromaffin cells of the adrenal medulla. NPY can be cleaved into Neuropeptide Y and C-flanking peptide of NPY chain, which regulates energy usage, and it is involved in learning, memory processing, and epilepsy. NPY is implicated in the control of feeding and in

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secretion of gonadotrophin-release hormone. In addition, NPY increases the proportion of energy stored as fat and blocks nociceptive signals to the brain.

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