

## Recombinant Human NPY Protein(Trx Tag)

**Catalog Number:** PDEH100454

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

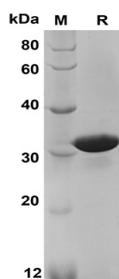
### Description

|                     |                                                                      |
|---------------------|----------------------------------------------------------------------|
| <b>Species</b>      | Human                                                                |
| <b>Source</b>       | E.coli-derived Human NPY protein Pro30-Trp97, with an N-terminal Trx |
| <b>Mol_Mass</b>     | 27.3 kDa                                                             |
| <b>Accession</b>    | P01303                                                               |
| <b>Bio-activity</b> | Not validated for activity                                           |

### Properties

|                       |                                                                                                                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 95% as determined by reducing SDS-PAGE.                                                                                                                                                                                              |
| <b>Endotoxin</b>      | < 10 EU/mg of the protein as determined by the LAL method                                                                                                                                                                              |
| <b>Storage</b>        | Generally, 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. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.                                                                                                                                                        |
| <b>Formulation</b>    | Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.                                                                                                                                                  |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis                                                                                                |

### Data



SDS-PAGE analysis of Human NPY proteins, 2µg/lane of Recombinant Human NPY proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 31 kDa

### Background

NPY (Neuropeptide Y) is a Protein Coding gene. This gene encodes a neuropeptide that is widely expressed in the central nervous system and influences many physiological processes, including cortical excitability, stress response, food intake, circadian rhythms, and cardiovascular function. NPY is a neuromodulator that is widely expressed throughout the central nervous system (CNS) and is conserved with classic neurotransmitters including GABA and glutamate. NPY/Agouti-related protein (AgRP) neurons in the arcuate nucleus of the hypothalamus are part of a neuroendocrine feedback loop that regulates feeding behavior and glucose homeostasis. NPY/AgRP neurons sense peripheral signals (including the hormones leptin, insulin, and ghrelin) and integrate those signals with inputs from other brain regions.

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