Recombinant Human NPY Protein(Trx Tag)

Catalog Number: PDEH100454



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

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Species Human

Source E.coli-derived Human NPY protein Pro30-Trp97, with an N-terminal Trx

 Mol_Mass
 27.3 kDa

 Accession
 P01303

Bio-activity Not validated for activity

Properties

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

Endotoxin < 10 EU/mg of the protein as determined by the LAL method

Storage 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.

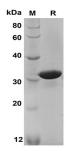
ShippingThis product is provided as lyophilized powder which is shipped with ice packs.FormulationLyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5%

Mannitol

Reconstitution 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 consecrated 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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