

Recombinant Rat Npy protein, His & GST-tagged

Cat. No. Npy-7870R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Npy aa. (Pro31~Trp98) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Rat
Source	E.coli
ProteinLength	Pro31~Trp98
Description	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. Studies in the rat model of depression (Flinders Sensitive Line) show that this gene is downregulated in the hippocampus and the prefrontal cortex compared to the control ((Flinders Resistant Line). Alternatively spliced transcript variants of this gene have been described, but the function of all the variants is not known.
Form	Freeze-dried powder
Molecular Mass	38kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>92%

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Characteristic	The isoelectric point is 6.4.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage buffer	PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300
Reconstitution	Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Npy neuropeptide Y [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Npy
Synonyms	NPY02; RATNPY; RATNPY02; pro-neuropeptide Y
Gene ID	24604
mRNA Refseq	NM_012614.2
Protein Refseq	NP_036746.1

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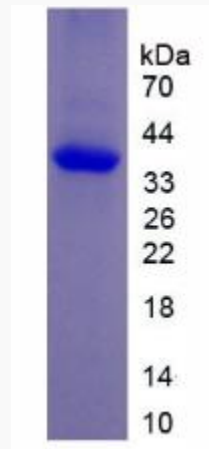
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UniProt ID

P07808

SDS-PAGE

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