# Recombinant Rat Npy protein, His & GST-tagged

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

## SPECIFICATION

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| **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 1μg (determined by the LAL method) |
| **Purity** | >92% |

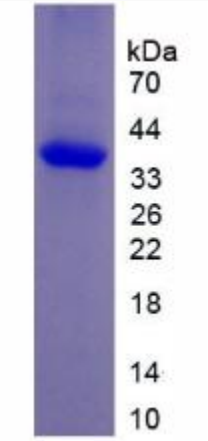
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| **Characteristic** | The isoelectric point is 6.4. |
| **Applications** | SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling. |
| **Stability** | The thermal stability is described by the loss rate. The loss rate was determined 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

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| **Gene Name** | Npy neuropeptide Y [ Rattus norvegicus (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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| **UniProt ID** | P07808 |
| **SDS-PAGE** |  |



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