



# Recombinant Protein Technical Manual

## Recombinant Human Nucleobindin-2/NUCB2 Protein RPES0707

### Product Data:

**Product SKU:** RPES0707

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P80303

### Protein Information:

**Molecular Mass:** 9.6 kDa

**AP Molecular Mass:** 10 kDa

**Tag:**

**Bio-activity:**

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

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 10mM Sodium Phosphate,pH6.5.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Nucleobindin-2; DNA-binding protein NEFA; Gastric cancer antigen Zg4; Prepronesfatin; Nesfatin; NUCB2; NEFA

## Immunogen Information:

**Sequence:** Val25-Leu106

## Background:

Nesfatin is a metabolic polypeptide encoded in the N-terminal region of the precursor protein, Nucleobindin2 (NUCB2). Nesfatin is a neuropeptide produced in the hypothalamus of mammals. It participates in the regulation of hunger and fat storage. Nesfatin is also expressed in other areas of the brain, and in pancreatic islets  $\beta$ -cells, gastric endocrine cells and adipocytes. Nesfatin suppresses food intake and can regulate energy metabolism in a Leptin independent manner. Nesfatin may also exert hypertensive roles and modulate blood pressure through directly acting on peripheral arterial resistance.