

Nesfatin-1, human recombinant

CATALOG #:	7178-10	10 µg
	7178-50	50 µg
ALTERNATE NAMES:	Nesfatin 1	
SOURCE:	E. Coli	
PURITY:	≥ 98% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	9.7 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/µg of protein (<1EU/µg).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized from 0.1% TFA	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

DESCRIPTION:

Nesfatin-1 is a metabolic polypeptide encoded in the N-terminal region of the precursor protein, Nucleobindin2 (NUCB2). Originally identified as a hypothalamic neuropeptide, Nesfatin-1 is also expressed in other areas of the brain, and in pancreatic islets β-cells, gastric endocrine cells and adipocytes. Nesfatin-1 suppresses food intake and can regulate energy metabolism in a Leptin independent manner. Recombinant human Nesfatin-1 is a 9.7 kDa protein containing 82 amino acid residues.

AMINO ACID SEQUENCE:

VPIDIDKTKV QNIHPVESAK IEPDPTGLYY DEYLKQVIDV LETDKHFREK LQKADIEEIK SGRLSKELDL VSHHVRTKLD EL

BIOLOGICAL ACTIVITY:

Determined by an in vivo assay using healthy wild type male mice (C57BL/6J). Mice were treated via intraperitoneal injection once at a dose of 4µg Nesfatin-1/gm of body weight. Significant effects on body weight and food consumption were observed relative to saline-treated controls.

RELATED PRODUCTS:

- Nesfatin-1, mouse recombinant (**Cat # 4913-10**)
- Nesfatin-1, rat recombinant (**Cat # 4914-10**)
- Nesfatin (human/mouse/rat) EIA Kit (**Cat # K4758-100**)

FOR RESEARCH USE ONLY! Not to be used in humans.