

Recombinant Human Nucleobindin-2

Catalog#:P02113 Derived from *E.coli*

DESCRIPTION	Recombinant Human Nucleobindin-2 is produced by our <i>E.coli</i> expression system and the target gene encoding Val25- Leu106 is expressed. Accession#: P80303 Known as: Nucleobindin-2; DNA-binding protein NEFA; Gastric cancer antigen Zg4; Prepronesfatin; Nesfatin-1; NUCB2; NEFA
FORMULATION	Lyophilized from a 0.2 μ m filtered solution of 10mM Sodium Phosphate, pH6.5.
SHIPPING	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
STORAGE	Lyophilized protein should be stored at $<-20^{\circ}\text{C}$, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at $4-7^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $<-20^{\circ}\text{C}$ for 3 months.
RECONSTITUTION	<i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</i> <i>It is not recommended to reconstitute to a concentration less than 100μg/ml.</i> Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
QUALITY CONTROL	Mol Mass: 9.6kDa AP Mol Mass: 10kDa, reducing conditions. Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
BACKGROUND	Nesfatin-1 is a metabolic polypeptide encoded in the N-terminal region of the precursor protein, Nucleobindin2 (NUCB2). Nesfatin-1 is a neuropeptide produced in the hypothalamus of mammals. It participates in the regulation of hunger and fat storage. 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. Nesfatin-1 may also exert hypertensive roles and modulate blood pressure through directly acting on peripheral arterial resistance.

