

Recombinant Human NAL10 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50692

Size: 10ug, 100ug

Protein Name: NACHT, LRR and PYD domains-containing protein 10 (Nucleotide-binding oligomerization domain protein 8)

Synonym: NLRP10, NALP10, NOD8, PYNOD

UniProt ID: Q86W26

UniProt Link: www.uniprot.org/uniprotkb/Q86W26/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 655 AA

Molecular Weight: 75 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAMAKARKPREALLWALSDLEENDFKKLKFYLRDMTLSEGQPPLARGELEGLIPVDLAELLISKYGEK
EAVKVVVLKGLKVMNLLLEVDQLSHICLHDYREVYREHVRCLLEWQEAGVNGRYNQVLLVAKPSSSES
PESLACPFPEQELESVTVEALFDSGEKPSLAPSLVVLQGSAGTGKTTLARKMVLDWATGTLYPGRF
DYVFYVSCKEVVLLLESKLEQLLFWCCGDNQAPVTEILRQPERLLFILDGFDELQRPFEELKKRGLS
PKESLLHLLIRRHTLPTCSLLITRPLALRNLEPLLQARHVHILGFSEEERARYFSSYFTDEKQADRAF
DIVQKNDILYKACQVPGICWVVC SWLQGGMERGKV VLET PRNSTDIFMAYVSTFLPPDDDGGCSEL
SRHRVLRSLCSLAAEQIQHQRFLFEEAELRKHNLDPRLAAFLSSNDYQLGLAIKKFY SFRHISFQDF
FHAMSYLVKEDQSRLGKESRREVQRLLLEVKEQEGNDEM TLTMQFLDISKKDSFSNLELKFCFRISP
CLAQDLKHFKEQMESMKHNRTWDLEFSLYEAKIKNLVKGIQMNNVSFKIKHSNEKKSQSQNLF SVKS
SLSHGPKEEQKCPSVHGQKEGKDNIAGTQKEASTGKGRGTEETPKNTYI

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant NACHT, LRR and PYD domains-containing protein 10 (Nucleotide-binding oligomerization domain protein 8) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Inhibits autoprocessing of CASP1, CASP1-dependent IL1B secretion, PYCARD aggregation and PYCARD-mediated apoptosis but not apoptosis induced by FAS or BID (PubMed:15096476). Displays anti-inflammatory activity (PubMed:20393137). Required for immunity against C.albicans infection (By similarity). Involved in the innate immune response by contributing to pro-inflammatory cytokine release in response to invasive bacterial infection (PubMed:22672233). Contributes to T-cell-mediated inflammatory responses in the skin (By similarity). Plays a role in protection against periodontitis through its involvement in induction of IL1A via ERK activation in oral epithelial cells infected with periodontal pathogens (PubMed:28766990). Exhibits both ATPase and GTPase activities (PubMed:23861819).

Subcellular Localization: Cytoplasm . Cell membrane ; Peripheral membrane protein .
Note=Cytoplasmic protein which is recruited to the cell membrane by NOD1 following invasive bacterial infection.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.