

Recombinant Mouse NAL10 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51760

Size: 10ug, 100ug

Protein Name: NACHT, LRR and PYD domains-containing protein 10

Synonym: Nlrp10, Nalp10, Pynod

UniProt ID: Q8CCN1

UniProt Link: www.uniprot.org/uniprotkb/Q8CCN1/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 673 AA

Molecular Weight: 76 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MALARANSPQEALLWALNDLEENSFKTLKFHLRDVTQFHLARGELESLSQVDLASKLISMYGAQEAV
RVVSRSLAMNLMELVDYLNQVCLNDYREIYREHVRRCLEERQDWGVNSSHNKLLMATSSSGGRR
SPSCSDLEQELDPVDVETLFAPEAESYSTPPIVVMQGSAGTGKTTLVKKLVQDWSKGKLYPGQFDY
VFYVSCREVLLPKCDLPNLICWCCGDDQAPVTEILRQPGRLLFILDGYDELQKSSRAECVLHILMRR
REVPCSLITTRPPALQSLEPMLGERRHVLVLGFSEEEERETYFSSCFTDKEQLKNALEFVQNNNAVLYK
ACQVPGICWVVC SWLKKKMARGQEVSETPSNSTDIFTAYVSTFLPTDGNGDSSSELTRHKVLKSLCS
LAAEGMRHQRLLFEEVLRKHGLDGPLTAFLNCIDYRAGLGIKKFYFRHISFQEFFFYAMSFLVKED
QSQQGEATHKEVAKLVDPENHEEVTLSQLFLDMLKTEGTLSQLGLKFCFRIAPSVRQDLKHFKEQIEA
IKYKRSWDLEFSLYDSKIKKLTQGIQMKDVILNVQHLDEKKSDKKKSVSVTSSSFSSGKVQSPFLGNDK
STRKQKKASNGKSRGAEEPAPGVRNRRLASREKGHMEMNDKEDGGVEEQEDEEGQTLKKDGEMI
DKMNG

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 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 (By similarity). Displays anti-inflammatory activity (By similarity). Required for immunity against C.albicans infection (PubMed:23071280). Involved in the innate immune response by contributing to pro-inflammatory cytokine release in response to invasive bacterial infection (By similarity). Contributes to T-cell-mediated inflammatory responses in the skin (PubMed:27221772). 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 (By similarity). Exhibits both ATPase and GTPase activities (By similarity).

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.