

Recombinant Human INAVA Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50553

Size: 10ug, 100ug

Protein Name: Innate immunity activator protein

Synonym: INAVA, C1orf106

UniProt ID: Q3KP66

UniProt Link: www.uniprot.org/uniprotkb/Q3KP66/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 663 AA

Molecular Weight: 73 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLQMPKLNEIPPGRAGRREARGEGRWPGQTGPEAARLEWRAQQGAGGARAPWDSWGSSRLPTQ
PGPGWSRCPPSLLCALSFKSTMESKDEVSDTDSGIIQLSGPDSPVSPMKELTHAVHKQQRALEAR
LEACLEELRRLCLREAELTGTLPAEYPLKPGEKAPKVRRRIGAAYKLDDWALHREDPLSSLERQLAL
QLQITEAARRLCLEENLSRQARRQRKHSMLQEEKKLQELQRCLVERRRNSEPPPAALPLGRELSA
SDDSSLSDGLLLEEEESQVPKPPPEPAPPSPRPLPPQTLEGLQPTGPEAGSPERAPVQNSPWKETS
LDHPYEKPRKSSEPWSESSPATTPQDGPSASSLWLEPASYHVVPPIRGVPGQWQGRTSAPATPEI
QGRRGQSQSLRVDSFRAGPEGRGRSAFPRRRPTHYTVTPDSCFPATKPPLPHAACHSCSEDSGS
DVSSISHPTSPGSSSPDISFLQPLSPPKTHRHGAWVPAGSRELVAHHPKLLPPGYFPAGRYVVVA
ESPLPPGEWELRRAAPGPAYEEEGTPLYQRLVPSRSRIVRTPSLKDSPAGRGLSKAAVSEELKWW
HERARLRSTRPHSLDRQGAFRVRSLLPLGREGFGRALGPRAQVPTVCVLRSPDGAPVQVFVPEKG
EIISQV

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 Innate immunity activator protein 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: Expressed in peripheral macrophages and intestinal myeloid-derived cells, is required for optimal PRR (pattern recognition receptor)-induced signaling, cytokine secretion, and bacterial clearance. Upon stimulation of a broad range of PRRs (pattern recognition receptor) such as NOD2 or TLR2, TLR3, TLR4, TLR5, TLR7 and TLR9, associates with YWHAQ/14-3-3T, which in turn leads to the recruitment and activation of MAP kinases and NF-kappa-B signaling complexes that amplifies PRR-induced downstream signals and cytokine secretion (PubMed:28436939). In the intestine, regulates adherens junction stability by regulating the degradation of CYTH1 and CYTH2, probably acting as substrate cofactor for SCF E3 ubiquitin-protein ligase complexes. Stabilizes adherens junctions by limiting CYTH1-dependent ARF6 activation (PubMed:29420262).

Subcellular Localization: Nucleus . Cytoplasm . Note=Translocates to the nucleus upon NOD2 stimulation.

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.