

Recombinant Mouse INAVA Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51701

Size: 10ug, 100ug

Protein Name: Innate immunity activator protein

Synonym: Inava

UniProt ID: Q7TN12

UniProt Link: www.uniprot.org/uniprotkb/Q7TN12/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 663 AA

Molecular Weight: 73 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLQMPKLNEIPPGRGGPGEPWGEGRWAGPTGPEAARPARGARGQARGARARWDSWEHSRLPTH
PGPGWDQCSPSFLCAPSSQKLIMESKDEVSDSDSGIILQSGPDSPVSPMKELTNAVRKQQRALEAR
LEACLEELRRLCLREAELTGTLPAEYPLKPGEKAPKVRRRRIGAAAYKLDEWALHREDPLSSLERQLAL
QLQITEAARRLCAEENLSRQARRQRKHAALQEEKLRDLQRCLGDRRRNSEPPPTTVPSLGRELSA
SDDSSLSDGLLLEEDSQAPKPPPEPAPPSPRPLPPQSLEGLQPTGPESGGQERAPIQNSPWKETS
LDHPYEKPRKSSSELSSSESSPATTPQDQPNPSSLWVLDAAASYHVVPINVPQGQRQGRTSAPATPEM
QGRRGQSQSLRVDSFRAGAEGRGRSAFPRRRPTHYTVTPDSCFTPGKPPLPHPACHSCSEDSG
SDVSSISHPTSPGSSSPDISFLRPLCLPEPPRRHRGAWGPACGRELAPHYSKLLLPAGYFPTGRYVMV
AEGHLPPGEWELCRAAVGAAYDEEGAPLRYQRLVPSHSRIVRTPSLKDSPAGRGLSKAAVSEELKW
WHERARLRSSRPHSLDRQGAFVRSLPPGRESFGRASGPRTQVPPVYVLRSTDGAPVQVFVPEN
GEIISQV

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 (By similarity). 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.