

Recombinant Mouse BIR1F Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51917

Size: 10ug, 100ug

Protein Name: Baculoviral IAP repeat-containing protein 1f (Neuronal apoptosis inhibitory protein 6)

Synonym: Naip6, Birc1f, Naip-rs4

UniProt ID: Q9JIB6

UniProt Link: www.uniprot.org/uniprotkb/Q9JIB6/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1403 AA

Molecular Weight: 160 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAEHGESSEDRISEIDYEF LAELSARFGMNLVQLAKSQEEEDHKERMKMKKGFNSQMRSEAKRLKT
FESYDTFRSWTPQEMAAAGFYHTGVKLGVCFCFCSLILFGNSLRKLP IERHKKLRPECEFLQGKDVG
NIGKYDIRVKSPEKMLRG GKARYHEEEARLESFEDWPFYAHGTSPRALSAAGFVFTGKRDTVQCFS
CGGSLGNWEEGDDPWKEHAKWFPKCEFLQSKKSSEEIAQYIQDYEGFVHVTGEHFVKSWVRREL
MVSAYCNSDVSFTNEELRMDMFKDWPQESPVGFALVRAGFFYTGKKDIVRCFSCGGCLEKWAEGD
DPMEDHIKFFPECVFLQTLKSSAEVIPTLQSQYALPEATETTRESNHDDAAAVHSTVVDLGRSEAQW
FQEARSLSEQLRDTYTKTSFCHMNLPEVCSSLGTDHLLGCDVSIISKHVSQPVQGALTIPEVFSNLSS
VMCVEGEAGSGKTTFLKRIAFLWASGCCPLLYRFQLVFYLSLSSITPDQGLANIICTQLLGAGGCISEV
CLSSSIQQLQHQLVFLDDYSGLASLPQALHTLITKNYLFRTCLLI AVHTNRVRDIRPYLGTSLEIQEFP
FYNTVFVLRKFFSHDIICVEKLIIFYSENKDLQGVYKTPLFVA AVCNDWNQNASAQDDFQDVTLFHSY
MQYLSLKYKATAESLQATVSSCGQLALTGLFSSCFEFNSDDLAEAGVDEDVKLTTF LMSKFTAQRLR
PVYRFLGPLFQEFLAAVRLTELLSSDRQEDQDLGLYYLRQIDSPLKAINSFNIFLYYVSSHSSSKAAPT
VVSLLLQLVDEKESLENMSENEDYMKLHPQTFLWFQFVRGLWLVSPESFSSVSEHLLRLALIFAYE
SNTVAECSPFILQFLRGRTLALRVNL EYFWDHPESLLLLRSLKVSINGNKMSSYVDYSFKTYFENLQ
PPAINEEYTSafeHVSEWRRNFAQDEEIIKNYENIWPRALPDISEGYWNLSPKPKIPKLEVQVNNMG
PADQALLQVLMEVFSASQSIEFHLFNSSGFLESIRPALELSKASVTKCSMSRLELSRAEQELLLTLPAL
QSLEVSETNQLPDQLFHNLHKFLGLKELCVRLDGKPDVLSVLPEEFNLNHHMEKLSIRTSTESDLSKL
VKFIQNFNPNLHVFLKCDFLSNCESLMTALASCKKLREIEFSGQCFEAMTFVNILPNFVSLKILSLKGG



QFADKETSEKFAQALGSLRNLEELLVPTGDGIHQVAKLIVRQCLQLPCLRVLAHFDILDDDESVEIARA
ATSGSFQKLENLDISMNHKITEEGYRNFFQALDNLPNLQMLNICRNIPGRIQVQATTVKALGHCVSRL
PSLTRLGMLSWLLDEEDMKVINDVKERHPQSKRLTIFWKWIVPFSPVVLE

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 Baculoviral IAP repeat-containing protein 1f (Neuronal apoptosis inhibitory protein 6) 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: Sensor component of the NLRC4 inflammasome that specifically recognizes and binds flagellin from pathogenic bacteria. Association of pathogenic bacteria proteins drives in turn drive assembly and activation of the NLRC4 inflammasome, promoting caspase-1 activation, cytokine production and macrophage pyroptosis. The NLRC4 inflammasome is activated as part of the innate immune response to a range of intracellular bacteria (PubMed:21874021). The NLRC4 inflammasome senses Gram-negative bacteria such as *L.pneumophila* and *P.aeruginosa*, enteric pathogens *S.typhimurium* (*Salmonella*) and *S.flexneri*. May contribute to prevent motor-neuron apoptosis induced by a variety of signals (By similarity).

Subcellular Localization: N/A

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.