

Recombinant Human NKRF Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50720

Size: 10ug, 100ug

Protein Name: NF-kappa-B-repressing factor (NFkB-repressing factor) (NRF) (Protein ITBA4)

Synonym: NKRF, ITBA4, NRF

UniProt ID: O15226

UniProt Link: www.uniprot.org/uniprotkb/O15226/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 690 AA

Molecular Weight: 78 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEKILQMAEGIDIGEMPSYDLVLSKPSKGQKRHLSTCDGQNPPKKQAGSKFHARPRFEPVHFVASS
SKDERQEDPYGPQTKEVNEQTHFASMPRDIYQDYTQDSFSIQDGNISQYCDSSGFILTKDQPVTANM
YFDSGNPAPSTTSQQANSQSTPEPSPSQTFPESVVAEKQYFIEKLTATIWKNLNPEMTSGSDKINY
TYMLTRCIQACKTNPEYIYAPLKEIPPADIPKNKKLLTDGYACEVRCQNIYLTGTYAGSKNGSRDRATE
LAVKLLQKRIEVRVRRKFKHTFGEDLVVCQIGMSSYEFPPALKPPEDLVVLGKDASGQPIFNASAKH
WTNFVITENANDAIGILNNSASFNKMSIEYKYEMMPNRTWRCRVFLQDHCLAEGYGTKKTSKHAAAD
EALKILQKTQPTYPSVKSSQCHTGSSPRGSGKKKDIKDLVYENSNNPVCTLNDAQFNRMTVEYVY
ERMTGLRWKCKVILESEVIAEAVGVKKTKVYEAAGEAVKTLKKTQPTVINNLKKGAVEDVISRNEIQG
RSAEEAYKQKIKEDNIGNQLLRKMGWTGGGLGKSGEGIREPISVKEQHKREGLGLDVERVNKIAKR
DIEQIIRNYARSESHTDLTFSRELTDNRKQIHQIAQKYGLKSKSHGVGHDRYLVVGRKRRKEDLLDQ
LKQEGQVGHYELVMPQAN

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 NF-kappa-B-repressing factor (NFkB-repressing factor) (NRF) (Protein ITBA4) 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: Enhances the ATPase activity of DHX15 by acting like a brace that tethers mobile sections of DHX15 together, stabilizing a functional conformation with high RNA affinity of DHX15 (PubMed:12381793). Involved in the constitutive silencing of the interferon beta promoter, independently of the virus-induced signals, and in the inhibition of the basal and cytokine-induced iNOS promoter activity (PubMed:12381793). Also involved in the regulation of IL-8 transcription (PubMed:12381793). May also act as a DNA-binding transcription regulator: interacts with a specific negative regulatory element (NRE) 5'-AATTCCTCTGA-3' to mediate transcriptional repression of certain NK-kappa-B responsive genes (PubMed:10562553).

Subcellular Localization: Nucleus, nucleolus .

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.