Recombinant KBRS2 protein (His tag)

Catalog Number	548392
Synonyms	I-kappa-B-interacting Ras-like protein 2; Kappa B-Ras protein 2; KappaB-Ras2
Species	Human
Expression System	E. coli
Accession	Q9NYR9
Molecular Weight	Predictes a molecular mass of 23.16 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	1-191
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 1-191 aa (Q9NYR9) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human NKIRAS2 Protein (Fragment 1-191) is a high-quality, soluble fragment of the NF-kappa-B inhibitor-interacting Ras-like protein 2, designed for structural and biochemical studies. This fragment captures a stable, functional unit of the protein, enabling researchers to investigate its role as a key regulator of NF-kappa-B signaling pathways. NKIRAS2, or NF-kappa-B inhibitor-interacting Ras-like protein 2, is an atypical Ras-like protein that plays a critical role in modulating NF-kappa-B activity. It functions by preventing the degradation of NF-kappa-B inhibitor beta (NFKBIB), thereby maintaining NFKBIB's stability and resistance to degradation. This action may involve blocking the phosphorylation of NFKBIB and inhibiting the nuclear localization of the p65/RELA NF-kappa-B subunit. Although its GTPase activity remains uncertain, both GTP- and GDP-bound forms are implicated in regulating NFKBIB phosphorylation. NKIRAS2 is primarily localized in the cytoplasm, where it exerts its regulatory effects on inflammatory and immune response pathways, making it a significant target for research in cellular signaling and disease mechanisms.