Recombinant IFIT3 protein (His tag)

Catalog Number	544059
Synonyms	IFIT-3; CIG49; ISG-60; Interferon-induced 60 kDa protein; IFI-60K; Interferon-induced protein with tetratricopeptide repeats 4; IFIT-4; Retinoic acid-induced gene G protein; P60; RIG-G
Species	Human
Expression System	E. coli
Accession	O14879
Molecular Weight	Predictes a molecular mass of 39.35 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

Product Information

Sequence Region	1-326
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-326 aa (O14879) 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 IFIT3 Protein (Fragment 1-326) is a high-quality, stable, and soluble fragment of Interferon-induced protein with tetratricopeptide repeats 3 (IFIT-3), designed for structural and biochemical studies. This product captures key functional regions of IFIT3, an essential antiviral and antiproliferative protein, offering researchers a reliable tool for investigating interferon-mediated cellular responses. IFIT3 is an interferon-induced antiviral protein that inhibits cellular processes such as migration, proliferation, signaling, and viral replication. It enhances host antiviral responses by acting as an adapter, bridging TBK1 to MAVS to activate TBK1 and promote IRF3 phosphorylation, leading to antiviral gene transcription. Additionally, IFIT3 exhibits antiproliferative activity by up-regulating cell cycle regulators CDKN1A/p21 and CDKN1B/p27, and it negatively regulates the apoptotic effects of IFIT2. The protein is primarily localized in the cytoplasm and mitochondria, underscoring its role in intracellular signaling and mitochondrial antiviral mechanisms. This recombinant fragment (residues 1-326) is optimized for stability and solubility, enabling detailed analysis of IFIT3's functional domains.