Recombinant IFT1B protein (His tag)

Catalog Number	550116
Synonyms	Interferon-induced protein with tetratricopeptide repeats 1-like protein; Interferon-induced protein with tetratricopeptide repeats 1B
Species	Human
Expression System	E. coli
Accession	Q5T764
Molecular Weight	Predictes a molecular mass of 56.65 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 60 kDa band.

Product Information

Sequence Region	1-474
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1-474 aa (Q5T764) 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	This recombinant protein represents a stable and soluble fragment (residues 1-474) of the human Protein IFIT1 homolog B (IFIT1B). Designed for structural and biochemical studies, this fragment is computationally optimized to facilitate research into the interferon-induced protein family, despite IFIT1B's lack of antiviral functionality compared to its homolog IFIT1. Protein IFIT1 homolog B (IFIT1B) is a human interferon-induced protein with tetratricopeptide repeats, but it is considered non-functional in antiviral defense. Unlike its homolog IFIT1, which plays a critical role in the innate immune response by forming part of an interferon-dependent multiprotein complex and inhibiting translation of viral RNAs lacking host-specific 2'-O-methylation, IFIT1B lacks this capability. It does not compete effectively with the host translation machinery to block viral RNA translation, as established in scientific studies (PubMed:27240734). The subcellular localization of IFIT1B is not specified, but its inclusion in the interferon-induced family suggests potential involvement in immune-related pathways, though without the antiviral activity characteristic of IFIT1.