Recombinant IFNL4 protein (His tag)

Catalog Number	546391
Synonyms	IFN-lambda-4
Species	Human
Expression System	E. coli
Accession	K9M1U5
Molecular Weight	Predictes a molecular mass of 19.07 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Amino Acid Sequence	MSKIKHHHHH HGGSAAPRRC LLSHYRSLEP RTLAAAKALR DRYEEEALSW GQRNCSFRPR RDPPRPSSCA RLRHVARGIA DAQAVLSGLH RSELLPGAGP ILELLAAAGR DVAACLELAR PGSSRKVPGA QKRRHKPRRA DSPRCRKASV VFNLLRLLTW ELRLAAHSGP CL
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 22-179 aa (K9M1U5) were fused with N-terminal 6His tag.

Storage & Handling

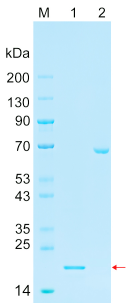
Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume 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 Interferon lambda-4 (IFN-lambda-4) Fragment (22-179) is a high-quality, stable protein designed for structural and biochemical studies. This fragment, derived from the IFNL4 gene, retains key functional properties and is optimized for solubility, making it ideal for investigating antiviral mechanisms and immune signaling pathways. Interferon lambda-4 is a cytokine that plays a critical role in antiviral defense by activating the JAK-STAT signaling pathway and upregulating specific interferon-stimulated genes. It is expressed in the cytoplasm and secreted, contributing to immune responses against viral infections. This recombinant fragment (residues 22-179) encompasses the functional domain, enabling focused research on its structural and mechanistic properties without the complexities of the full-length protein.

Validation

SDS-PAGE



Recombinant IFNL4 protein (His tag) SDS-PAGE
M: Marker; Lane 1: IFNL4; Lane 2: BSA