

Human IL-36 beta / IL-1F8 Protein, Tag Free (MALS verified)

Catalog # IL8-H5119



BIOSYSTEMS
Acro

Synonyms

IL36B, FIL1 eta, IL-1F8, IL-1H2, IL1F8, IL1H2

Source

Human IL-36 beta Protein, Tag Free (IL8-H5119) is expressed from *E. coli* cells. It contains AA Arg 5 - Glu 157 (Accession # [Q9NZH7-2](#)).

Predicted N-terminus: Arg

Molecular Characterization

IL-36 beta(Arg 5 - Glu 157)
Q9NZH7-2

This protein carries no "tag".

The protein has a calculated MW of 17.2 kDa. The protein migrates as 15-17 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

The protein is designed as a dimer.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

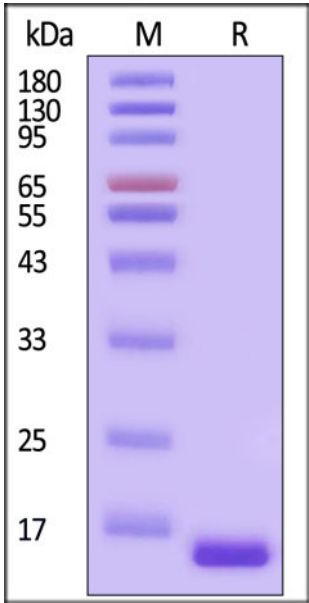
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

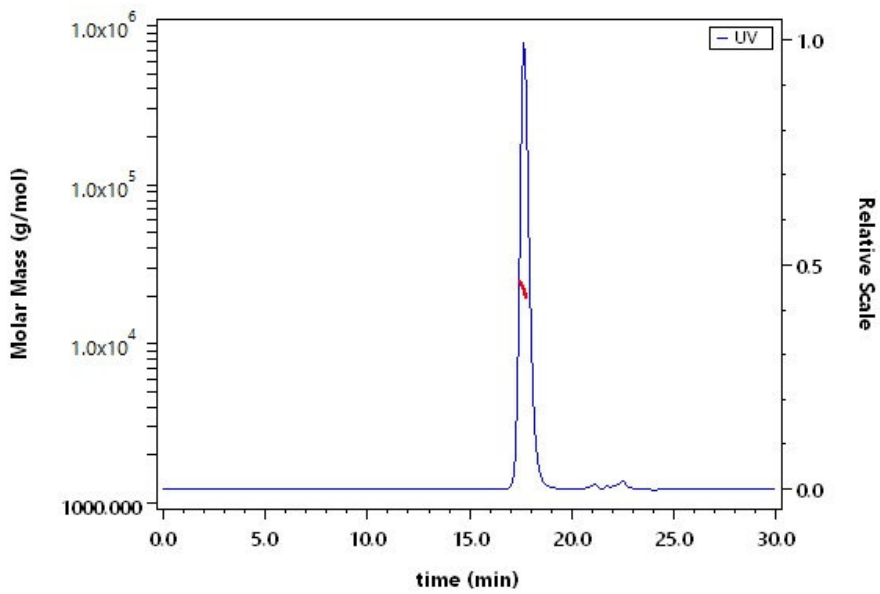
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



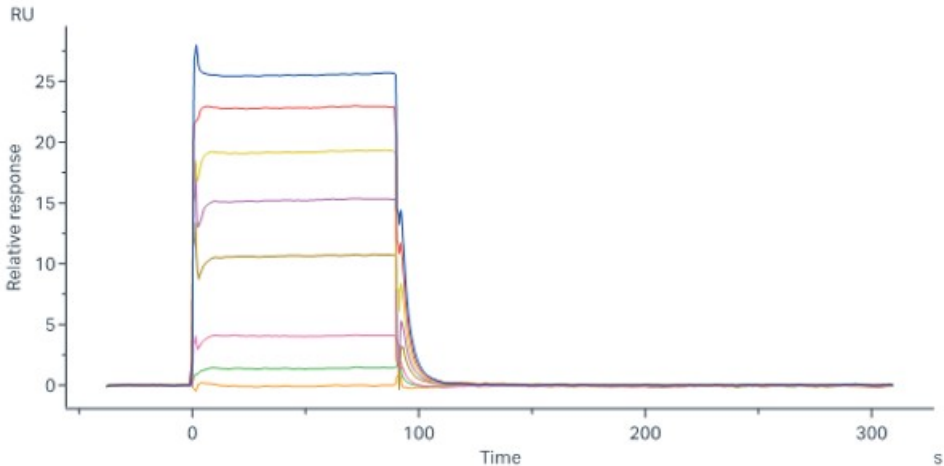
Human IL-36 beta Protein, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human IL-36 beta Protein, Tag Free (Cat. No. IL8-H5119) is more than 95% and the molecular weight of this protein is around 17-25 kDa verified by SEC-MALS.

Bioactivity-SPR



Human IL-1 Rrp2, His Tag(Cat. No. IL2-H52H6) immobilized on CM5 Chip can bind Human IL-36 beta Protein, Tag Free (Cat. No. IL8-H5119) with an affinity constant of 88.8 nM as determined in a SPR assay (Biacore 8K) (QC tested).

Background

The IL-36 subfamily of cytokines is the most diverse, including three agonists(IL-36 α , IL-36 β , and IL-36 γ), one antagonist(IL-36Ra), one cognate receptor(IL-36R) and one accessory protein(IL-1RAcP). The receptor activation follows a two-step mechanism in that the agonist first binds to IL-36R and the resulting binary complex recruits IL-1RAcP. IL-36 β that binds to and signals through the IL-36R which in turn activates NF-kappa-B and MAPK signaling pathways in target cells. Appropriately balanced IL-36 signaling is a critical determinant of skin and lung health.



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