

Human IL-20 Protein, His Tag, low endotoxin (MALS & SPR verified)

Catalog # IL0-H5243



BIOSYSTEMS
Acro

Synonyms

interleukin-20, IL10D, IL-20, interleukin 20, Cytokine Zcyto10, ZCYTO10

Source

Human IL-20, His Tag (IL0-H5243) is expressed from human 293 cells (HEK293). It contains AA Leu 25 - Glu 176 (Accession # [Q9NYY1-1](#)).

Predicted N-terminus: His

Molecular Characterization

Poly-his	IL-20(Leu 25 - Glu 176) Q9NYY1-1
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This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 19.4 kDa. The protein migrates as 18 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 0.01 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.

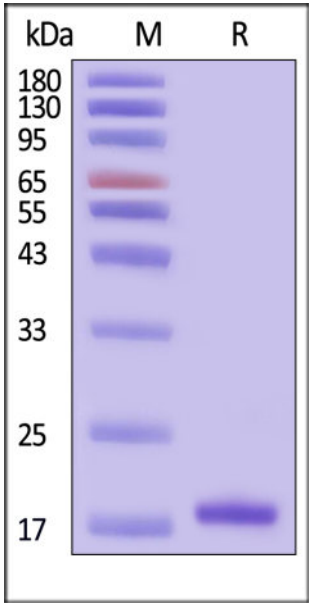
This product is stable after storage at:

- -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

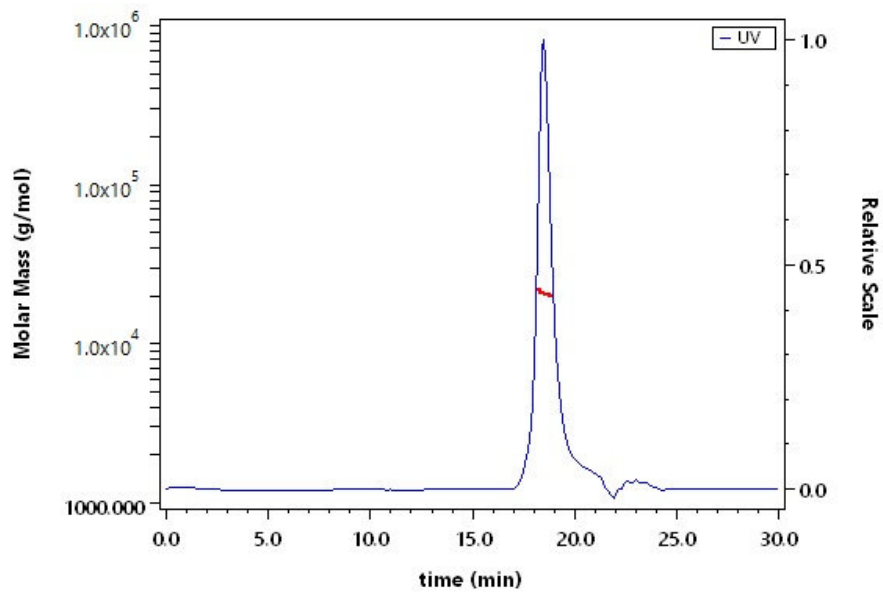
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



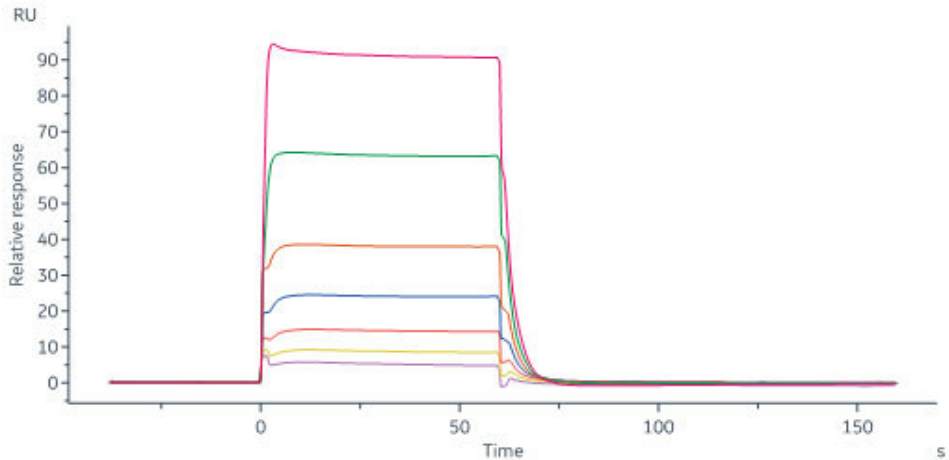
Human IL-20, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human IL-20, His Tag (Cat. No. IL0-H5243) is more than 95% and the molecular weight of this protein is around 16-24 kDa verified by SEC-MALS.

Bioactivity-SPR



Human IL-20, His Tag (Cat. No. IL0-H5243) immobilized on CM5 Chip can bind Human IL-20 R alpha, Fc Tag (Cat. No. ILA-H525d) with an affinity constant of 4.42 μ M as determined in a SPR assay (Biacore 8K) (QC tested).

Background

Interleukin-20 (IL-20) belongs to the family of IL-10-related cytokines, which includes IL-10, -19, -20, -22, -24 and -26. IL-20 induces STAT activation through two types of receptor complex, one of which it shares with IL-19, indicating that their biological activities may overlap. Both cytokines may play an important role in regulating the development and proper functioning of skin. IL-20 has also been shown to promote endothelial cell tube formation, suggesting that it may be involved in vascular vessel maturation and remodelling.

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