Human IL-3 Protein, Ultra Low Endotoxin

Cat. No. IL3-HM201-UL

Description

Source	Recombinant Human IL-3 Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Ala20-Phe152.
Accession	P08700
Molecular Weight	The protein has a predicted MW of 41.6 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.001 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

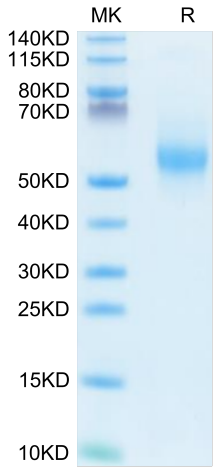
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Interleukin 3 is a pleiotropic factor produced primarily by activated T cells that can stimulate the proliferation and differentiation of pluripotent hematopoietic stem cells as well as various lineage committed progenitors. This CSF induces granulocytes, macrophages, mast cells, stem cells, erythroid cells, eosinophils and megakaryocytes.

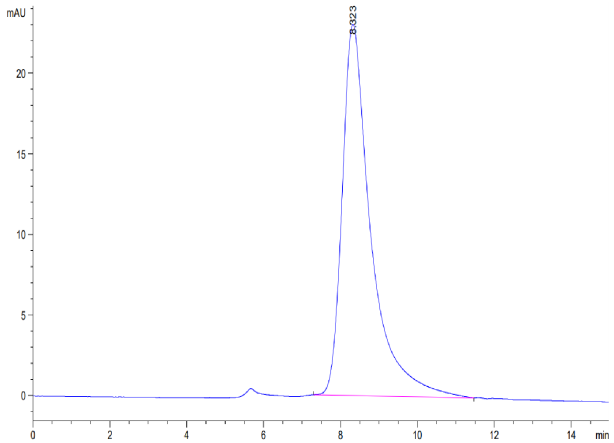
Assay Data

Bis-Tris PAGE



Human IL-3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human IL-3 is greater than 95% as determined by SEC-HPLC.

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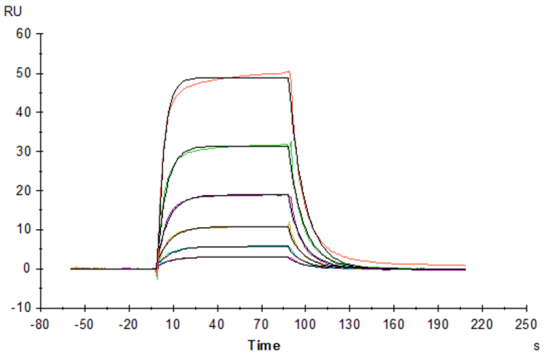
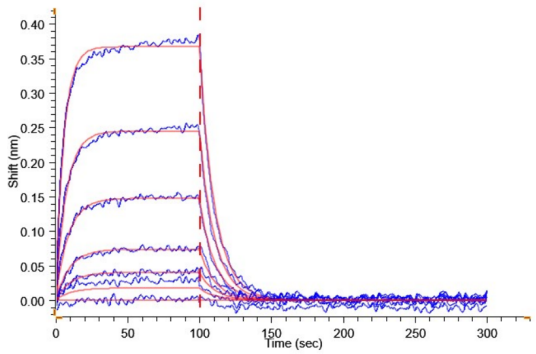
SPR Data



Human IL-3, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-3 R alpha, His Tag with an affinity constant of 0.276 μM as determined in SPR assay (Biacore T200).

BLI Data



Loaded Human IL-3, hFc Tag Tag on ProA-Biosensor, can bind Human IL-3 R alpha, His Tag with an affinity constant of 0.55 μM as determined in BLI assay (Gator).