Human IL-15 Protein

Cat. No. IL5-HE015



Description	
Source	Recombinant Human IL-15 Protein is expressed from E.coli without tag.
	It contains Asn49-Ser162.
Accession	P40933
Molecular Weight	The protein has a predicted MW of 12.8 kDa same as Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by SEC-HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4) / 20mM Tris, 150mM NACI (pH 8.0). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3-6 months after reconstitution.2-8°C for 2-7

Background

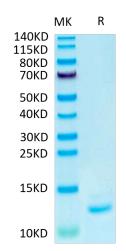
Storage

Interleukin 15 (IL-15) is a widely expressed 14 kDa cytokine that is structurally and functionally related to IL-2 and plays an important role in many immunological diseases.IL-15 is a cytokine that stimulates the proliferation of T-lymphocytes. Stimulation by IL15 requires interaction of IL15 with components of the IL2 receptor, including IL2RB and probably IL2RG but not IL2RA.

days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please

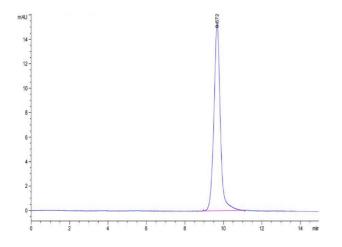
Assay Data

Tris-Bis PAGE



Human IL-15 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



minimize freeze-thaw cycles.

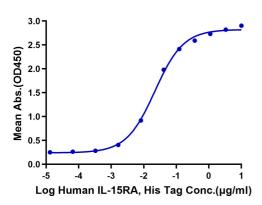
The purity of Human IL-15 is greater than 95% as determined by SEC-HPLC.

KAGTUS

Assay Data

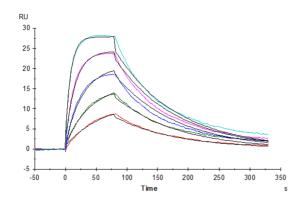
ELISA Data

Human IL-15, No Tag ELISA 0.1µg Human IL-15, No Tag Per Well



Immobilized Human IL-15 at $1\mu g/ml$ (100 $\mu l/Well$) on the plate. Dose response curve for Human IL-15RA, His Tag with the EC50 of 22.1ng/ml determined by ELISA.

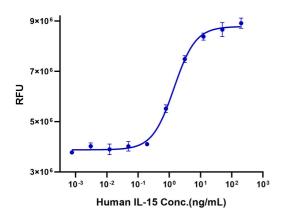
SPR Data



Human IL-2 R beta, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human IL-15, No Tag with an affinity constant of 5.9nM as determined in SPR assay (Biacore T200).

Cell Based Assay

Recombinant Human IL-15 Bioactivity



MO7e human megakaryocytic leukemic cells. The ED50 for this effect is 1-2 ng/mL. The specific activity of recombinant human IL-15 is > 5 x 10^7 units/mg, which is calibrated against the human IL-15 reference standard (NIBSC code: 95/554) (QC Test).

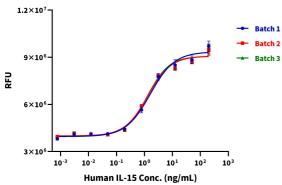
Measured in a cell proliferation assay using

Batch to Batch Consistency



Assay Data

Recombinant Human IL-15 Bioactivity



Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. Bioactivity of three different batches of Human IL-15 shows very high batch-to-batch consistency.