Human IL-15 Protein

IL5-HE015 Cat. No.



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 Bis-Tris PAGE result.
Endotoxin	Less than 0.05 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 0.22 μ m filtered solution in 20 mM Tris, 150 mM NACI (pH 7.5). Normally 8% mannitol 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.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend

Background

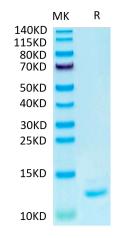
Storage

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 Tlymphocytes. Stimulation by IL15 requires interaction of IL15 with components of the IL2 receptor, including IL2RB and probably IL2RG but not IL2RA.

to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

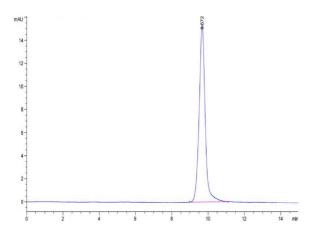
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



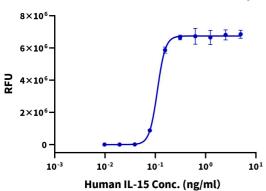
The purity of Human IL-15 is greater than 95% as determined by SEC-HPLC.

KAGTUS

Assay Data

Cell Based Assay

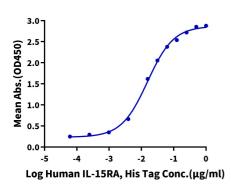
Recombinant Human IL-15 Bioactivity



Measured in a cell proliferation assay using CTLL-2 cells. The ED50 for this effect is 0.1 - 0.3 ng/mL. The specific activity of recombinant human IL-15 is > 1 × 10^7 units/mg, which is calibrated against the human IL-15 reference standard (NIBSC code: 95/554) (QC Test).

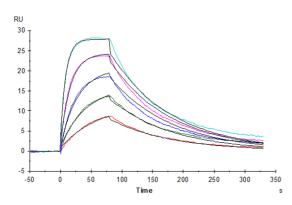
ELISA Data

Human IL-15, No Tag ELISA 0.2µg Human IL-15, No Tag Per Well



Immobilized Human IL-15, No Tag at 2 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Human IL-15RA, His Tag with the EC50 of 15.4 ng/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 5.9 nM as determined in SPR assay (Biacore T200).