

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	P40933-1
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

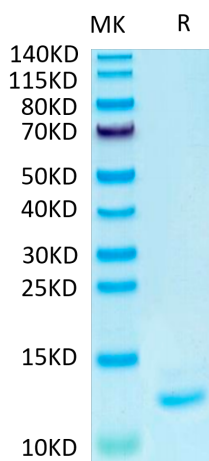
Formulation	Supplied as 0.22 µm filtered solution in 20mM Tris, 150mM NaCl (pH 7.5).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

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.

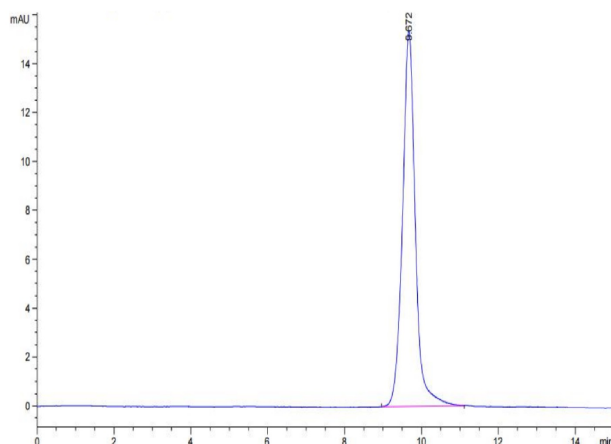
Assay Data

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.

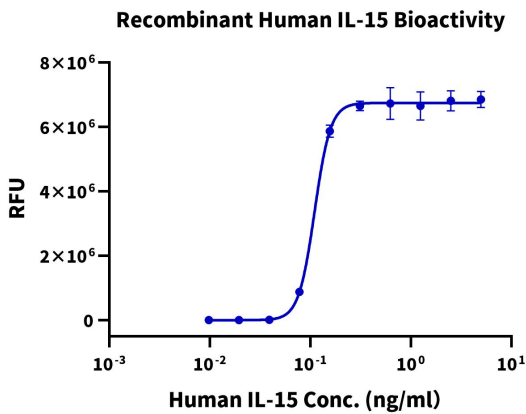
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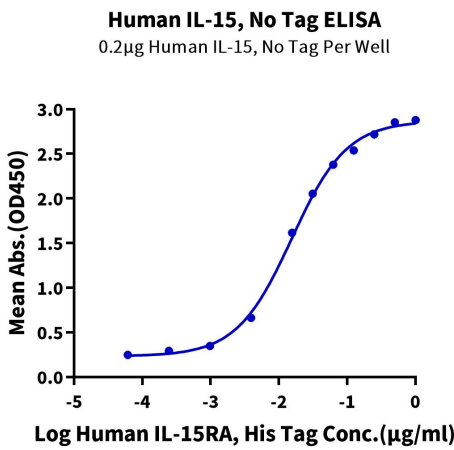
Assay Data

Cell Based Assay



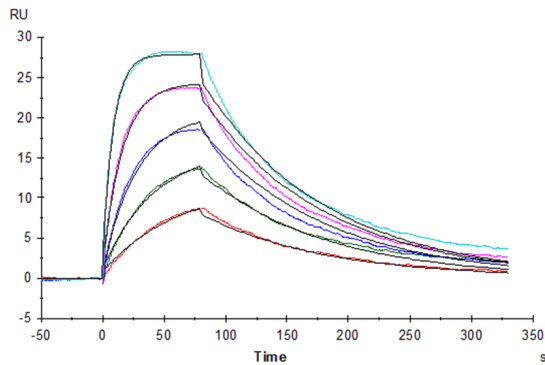
Measured in a cell proliferation assay using CTLL-2 cells. The ED50 for this effect is 0.1 - 0.3 ng/mL. The specific activity of recombinant human IL-15 is $> 1 \times 10^7$ units/mg, which is calibrated against the human IL-15 reference standard (NIBSC code: 95/554) (QC Test).

ELISA Data



Immobilized Human IL-15, No Tag at 2 µg/ml (100 µl/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).