

**Synonym**

IL3R,IL3RA,IL-3Ra,IL-3R-alpha,IL3RAY,IL3RX,IL3RY,CD123 antigen,CD123,hIL3Ra,hIL-3Ra,MGC34174,IL-3 R alpha

**Source**

Human IL-3 R alpha Protein, Llama IgG2b Fc Tag(ILA-H5255) is expressed from human 293 cells (HEK293). It contains AA Thr 19 - Arg 305 (Accession # [P26951-1](#) ).

Predicted N-terminus: Thr 19

**Molecular Characterization**

IL-3 R alpha(Thr 19 - Arg 305) P26951-1	LlamaFc(Glu1 - Ser243) AAX73259.1
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This protein carries a llama IgG2b Fc tag at the C-terminus

The protein has a calculated MW of 60.9 kDa. The protein migrates as 45 kDa, 55 kDa and 80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 0.01 EU per µg by the LAL method.

**Purity**

>90% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 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.*

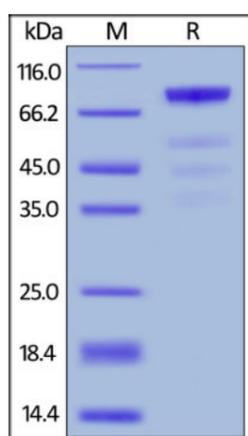
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

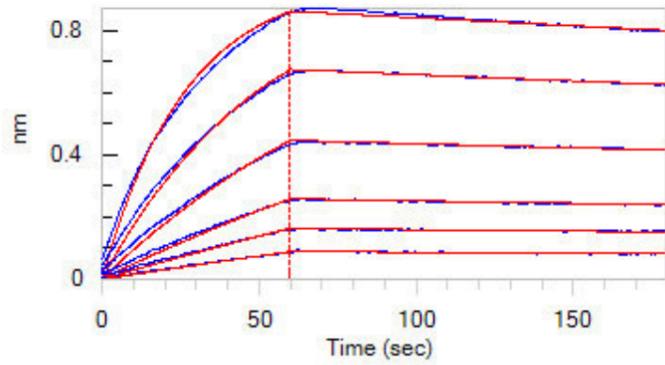
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Human IL-3 R alpha Protein, Llama IgG2b Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

**Bioactivity-BLI**



Loaded ActiveMax® Human IL-3, His Tag (Cat. No. IL3-H52H9) on NTA Biosensor, can bind Human IL-3 R alpha Protein, Llama IgG2b Fc Tag (Cat. No. ILA-H5255) with an affinity constant of 16.9 nM as determined in BLI assay (ForteBio Octet Red96e) (QC tested).

### Background

Interleukin 3 receptor alpha (low affinity) (IL3RA), also known as CD123 (Cluster of Differentiation 123) is a 70-kD glycoprotein member of the hematopoietin receptor superfamily. This protein associates with a beta subunit common to the receptors for IL-5 and granulocyte-macrophage colony-stimulating factor (GM-CSF) to form a high-affinity receptor for IL-3. The interleukin-3 receptor  $\alpha$  chain (CD123) has been identified as a potential immunotherapeutic target because it is overexpressed in AML compared with normal hematopoietic stem cells.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.