

# Recombinant Human IL-3RA/CD123 Protein

Catalog No.: RP00443

## Sequence Information

|                   |                |
|-------------------|----------------|
| <b>Species</b>    | <b>Gene ID</b> |
| Human             | 3563           |
| <b>Swiss Prot</b> | <b>Tags</b>    |
| P26951-1          | C-hFc          |

### Synonyms

CD123; IL-3R subunit alpha; IL3R;  
IL3RA; IL-3Ra; IL3RAY; IL3RX;  
IL3RY; MGC34174; IL-3 R alpha

## Product Information

|               |                                                                             |
|---------------|-----------------------------------------------------------------------------|
| <b>Source</b> | <b>Purification</b>                                                         |
| HEK293 cells  | ≥ 90 % as<br>determined by<br>SDS-PAGE; ≥ 90<br>% as determined<br>by HPLC. |

|                      |                    |
|----------------------|--------------------|
| <b>Calculated MW</b> | <b>Observed MW</b> |
| 59.7 kDa             | 70-80 kDa          |

### Endotoxin

< 1 EU/μg of the protein by LAL  
method.

### Formulation

Lyophilized from 0.22 μm filtered  
solution in PBS (pH 7.4). Normally  
8% trehalose is added as  
protectant before lyophilization.

### Reconstitution

Centrifuge the vial before opening.  
Reconstitute to a concentration of  
0.1-0.5 mg/mL in sterile distilled  
water. Avoid vortex or vigorously  
pipetting the protein. For long  
term storage, it is recommended  
to add a carrier protein or stabilizer  
(e.g. 0.1% BSA, 5% HSA, 10% FBS  
or 5% Trehalose), and aliquot the  
reconstituted protein solution to  
minimize free-thaw cycles.

## Background

Interleukin-3 receptor subunit alpha, also known as IL-3 receptor subunit alpha, IL-3R-alpha, CD123, and IL3RA, is a single-pass type I membrane protein which belongs to the type I cytokine receptor family and Type 5 subfamily. The specific alpha subunit of the interleukin-3 receptor (IL-3Ralpha, CD123) is strongly expressed in various leukemic blasts and leukemic stem cells and seems to be an excellent target for the therapy of leukemias.

## Basic Information

### Description

Recombinant Human IL-3RA/CD123 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Thr19-Arg305) of Human IL-3 R alpha/CD123 (Accession #P26951-1) fused with a C-hFc tag at the C-terminus.

### Activity

### Shipping

Lyophilized proteins are shipped at ambient temperature.  
Liquid proteins are shipped at frozen temperature with dry ice.  
Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C

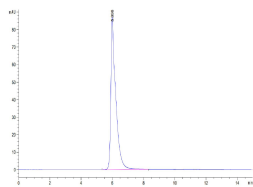
### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

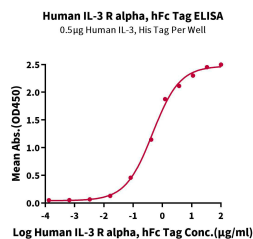
## Contact

|                                                                                     |  |                                                                          |
|-------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------|
|  |  | 400-999-6126                                                             |
|  |  | <a href="mailto:cn.market@abclonal.com.cn">cn.market@abclonal.com.cn</a> |
|  |  | <a href="http://www.abclonal.com.cn">www.abclonal.com.cn</a>             |

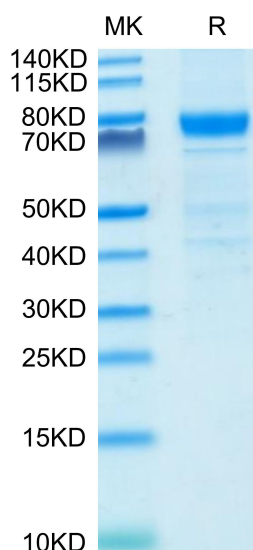
Validation Data



The purity of Human IL-3 R alpha is greater than 90% as determined by SEC-HPLC.



Immobilized Human IL-3, His Tag at 5 µg/mL (100 µL/well) on the plate. Dose response curve for Human IL-3 R alpha, hFc Tag with the EC<sub>50</sub> of 0.46 µg/mL determined by ELISA.



Recombinant Human IL-3RA/CD123 Protein was determined by Tris-Bis PAGE under reducing conditions.