

## Product datasheet

### Recombinant human IL-4 protein ab155733

[4 Images](#)

#### Description

<b>Product name</b>	Recombinant human IL-4 protein
<b>Biological activity</b>	Measured by its binding ability in a functional ELISA. Immobilized ab155733 at 5 µg/mL (100 µL/well) can bind Human IL-4 R alpha, Fc Tag with a linear range of 1-20 ng/mL .
<b>Purity</b>	> 90 % SDS-PAGE. ab155733 was lyophilised from 0.22 µm filtered solution.
<b>Endotoxin level</b>	< 0.100 Eu/µg
<b>Expression system</b>	HEK 293 cells
<b>Accession</b>	<b><u>P05112</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	HKCDITLQEIIKTLNSLTEQKTLCTELTVTDIFAASKNTTEKE TFCRAAT VLRQFYSHHEKDTRCLGATAQQFHRHKQLIRFLKRLDRNL WGLAGLNSCP VKEANQSTLENFLERLKTIMREKYSKCSS
<b>Predicted molecular weight</b>	15 kDa
<b>Amino acids</b>	25 to 153

#### Specifications

Our **Abpromise guarantee** covers the use of **ab155733** in the following tested applications.

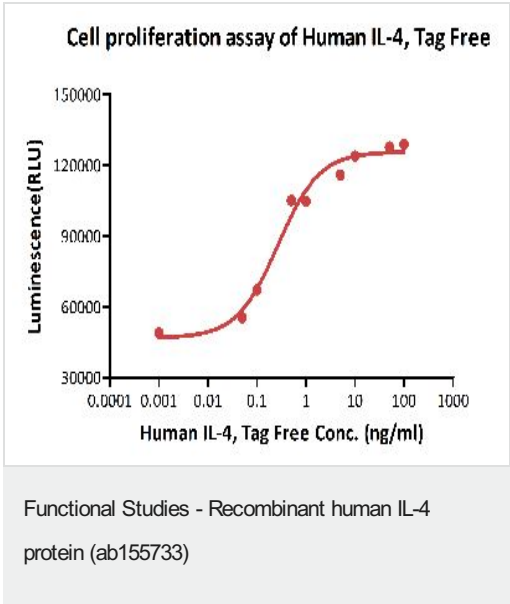
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	ELISA Functional Studies SDS-PAGE
<b>Form</b>	Lyophilized

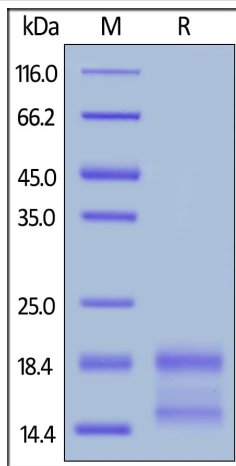
#### Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
	pH: 7.4
	Constituents: 0.39% MES, 5% Trehalose, 1.17% Sodium chloride, PBS
	Lyophilized from 0.22 µm filtered solution.
	5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5%
	This product is an active protein and may elicit a biological response in vivo, handle with caution.
<b>Reconstitution</b>	Reconstitute with sterile deionized water to a concentration of 100 µg/ml.
<b>General Info</b>	
<b>Function</b>	Participates in at least several B-cell activation processes as well as of other cell types. It is a costimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells. It enhances both secretion and cell surface expression of IgE and IgG1. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes.
<b>Involvement in disease</b>	Genetic variations in IL4 may be a cause of susceptibility to ischemic stroke (ISCHSTR) [MIM:601367]; also known as cerebrovascular accident or cerebral infarction. A stroke is an acute neurologic event leading to death of neural tissue of the brain and resulting in loss of motor, sensory and/or cognitive function. Ischemic strokes, resulting from vascular occlusion, is considered to be a highly complex disease consisting of a group of heterogeneous disorders with multiple genetic and environmental risk factors.
<b>Sequence similarities</b>	Belongs to the IL-4/IL-13 family.
<b>Cellular localization</b>	Secreted.

Images

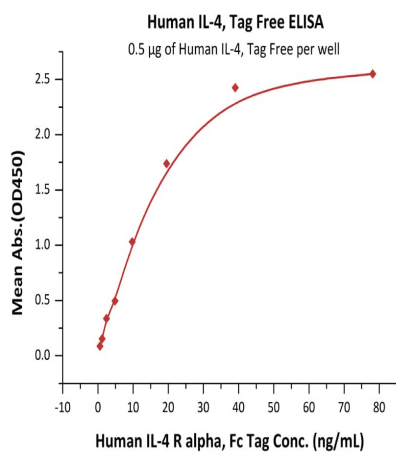


ab155733 stimulates the proliferation of TF-1 human erythroleukemic cells. The ED50 for this effect is 0.27-0.49 ng/mL



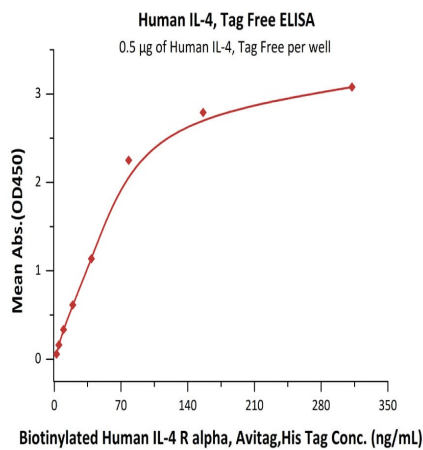
SDS-PAGE - Recombinant human IL-4 protein  
(ab155733)

Human IL-4 (Tag Free) on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.



ELISA - Recombinant human IL-4 protein (ab155733)

Immobilized Human IL-4 (ab155733) at 5 µg/mL (100 µL/well) can bind Human IL-4 R alpha, Fc Tag with a linear range of 1-20 ng/mL.



ELISA - Recombinant human IL-4 protein (ab155733)

Ab155733 at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-4 R alpha ([ab246188](#)) with a linear range of 2-78 ng/mL.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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