

# Active Recombinant Human IL15 Protein (Asn49-Ser162), GMP Grade, Animal-Free

Cat. No. IL15-05HG Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	GMP Recombinant Human IL15 Protein, Asn49-Ser162, without tag was expressed in E. coli and produced using non-animal reagents in an animal-free laboratory under cGMP guidelines.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Asn49-Ser162
<b>Description</b>	The protein encoded by this gene is a cytokine that regulates T and natural killer cell activation and proliferation. This cytokine and interleukin 2 share many biological activities. They are found to bind common hematopoietin receptor subunits, and may compete for the same receptor, and thus negatively regulate each other's activity. The number of CD8+ memory cells is shown to be controlled by a balance between this cytokine and IL2. This cytokine induces the activation of JAK kinases, as well as the phosphorylation and activation of transcription activators STAT3, STAT5, and STAT6. Studies of the mouse counterpart suggested that this cytokine may increase the expression of apoptosis inhibitor BCL2L1/BCL-x(L), possibly through the transcription activation activity of STAT6, and thus prevent apoptosis. Alternatively spliced transcript variants of this gene have been reported.
<b>Bio-activity</b>	Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

cells. The ED50 for this effect is 0.300-2.60 ng/mL. The specific activity of recombinant human IL-15 is  $>2.00 \times 10^8$  units/mg, which is calibrated against the human IL-15 reference standard.

**Molecular Mass**

Predicted Molecular Mass: 13 kDa  
SDS-PAGE: 9 kDa, under reducing conditions.

**N-terminal Sequence Analysis**

Asn49

**Endotoxin**

< 0.10 EU/μg of the protein by the LAL method.

**Purity**

> 97%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

**Storage**

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  
12 months from date of receipt, -20 to -70 centigrade as supplied.  
1 month, 2 to 8 centigrade under sterile conditions after reconstitution.  
3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

**Storage Buffer**

Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.

**Reconstitution**

Reconstitute at 100-500 μg/mL in PBS.

**Shipping**

The product is shipped at ambient temperature.

## GENE INFORMATION

**Gene Name**

IL15 interleukin 15 [ Homo sapiens ]

**Official Symbol**

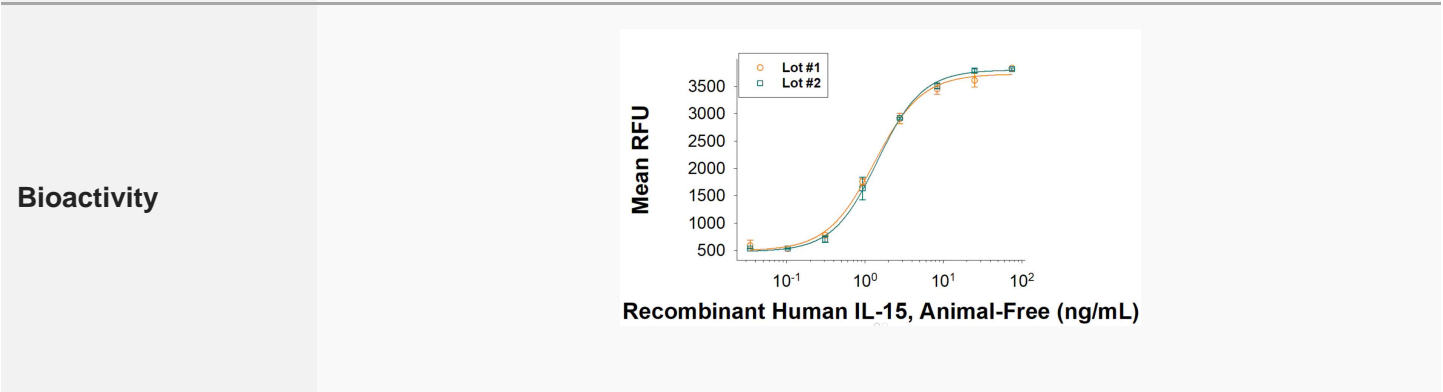
IL15

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Synonyms</b>	IL15; interleukin 15; interleukin-15; IL 15; MGC9721; IL-15
<b>Gene ID</b>	3600
<b>mRNA Refseq</b>	NM_000585
<b>Protein Refseq</b>	NP_000576
<b>MIM</b>	600554
<b>UniProt ID</b>	P40933

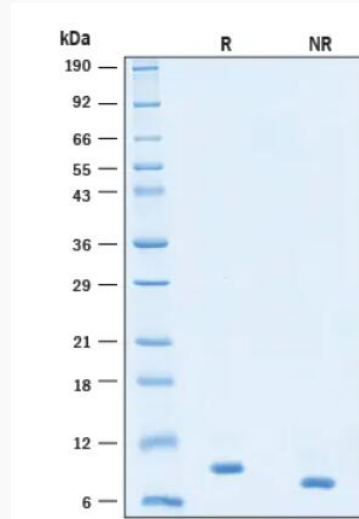


Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com) Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

**SDS-PAGE**



 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA