

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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	Asn49-Ser162
Description	The protein encoded by this gene is a cytokine that regulates T and natural killer cell activation and proliferation. This cytokine and interleukine 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.
Bio-activity	Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic

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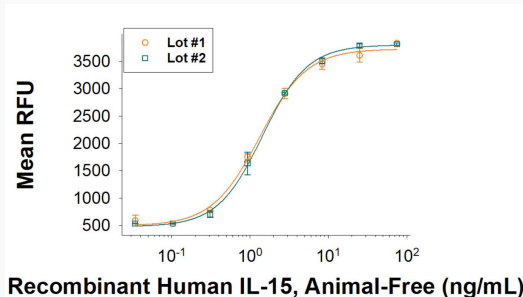
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	cells. The ED50 for this effect is 0.300-2.60 ng/mL. The specific activity of recombinant human IL-15 is $>2.00 \times 10^8$ units/mg, which is calibrated against the human IL-15 reference standard.
Molecular Mass	Predicted Molecular Mass: 13 kDa 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

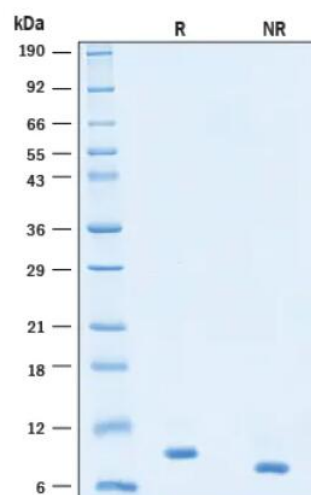
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Synonyms	IL15; interleukin 15; interleukin-15; IL 15; MGC9721; IL-15
Gene ID	3600
mRNA Refseq	NM_000585
Protein Refseq	NP_000576
MIM	600554
UniProt ID	P40933
Bioactivity	 Mean RFU Recombinant Human IL-15, Animal-Free (ng/mL) Lot #1 Lot #2

SDS-PAGE



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