

## GFM7AF Recombinant Mouse IL-15 (Animal-Free)

### Description

Interleukin-15 (IL-15) is a widely expressed proinflammatory cytokine that is structurally and functionally related to interleukin-2 (IL-2). IL-15 signals through JAK kinases to activate STAT3, STAT5, and STAT6 transcription factors. IL-15 regulates the activation of T cells, neutrophils, and macrophages, and is a stimulatory cytokine promoting dendritic cell function. IL-15 expression is dysregulated in chronic inflammatory disorders, including rheumatoid arthritis, psoriasis, and pulmonary inflammatory diseases. Human IL-15 shows activity on mouse cells.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

<b>Length</b>	115 aa
<b>Molecular Weight</b>	12.9 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	P40933
<b>Purity</b>	≥95% determined by reducing and non-reducing SDS-PAGE

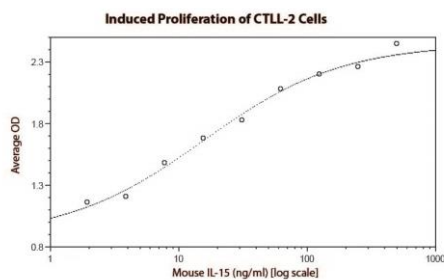
### Specifications

<b>Alternative Names</b>	Interleukin-15, interleukin 15, IL15, IL 15
<b>Biological Activity</b>	Mouse IL-15 (Animal-Free) is fully biologically active when compared to standard. The activity is determined by the ability to induce CTLL-2 cells proliferation and it is typically less than 20 ng/ml. This corresponds to an expected specific activity of $5.0 \times 10^4$ units/mg.
<b>Endotoxin Level</b>	≤1.00 EU/μg as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM Sodium Bicarbonate, pH 8.0
<b>AA Sequence</b>	MNWNVISDL KKIEDLIQSM HIDATLYTES DVHPSCKVTA MKCFLELELQV ISLESGDASI HDTVENLIIL ANNSLSSNGN VTESGCKECE ELEEKNIKEF LQSFVHIVQM FINTS

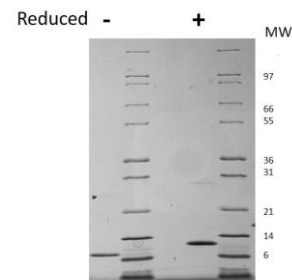
### Preparation and Storage

<b>Reconstitution</b>	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile 10 mM HCl at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
<b>Stability and Storage</b>	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

### Data



Induced proliferation of CTLL-2 cells for Mouse IL-15. Cell proliferation was measured to calculate the ED50, which is as expected less than 20 ng/ml.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μg of protein was loaded in each lane. Mouse IL-15 has a predicted Mw of 13.4 kDa.