

## GFM59

## Recombinant Mouse IL-17A

### Description

Interleukin-17A (IL-17A), also known as CTLA-8, is a member of the IL-17 family of proteins. IL-17A is a proinflammatory cytokine that is secreted by activated CD4+ and CD8+ T lymphocytes. IL-17A acts through its receptor, IL-17R, to promote increased cytokine and chemokine secretion. In turn, the cytokines and chemokines mediate the immunoregulatory function of IL-17A by promoting the proliferation, maturation, and chemoattraction of neutrophils to inflammatory sites. Elevated levels of IL-17A are associated with rheumatoid arthritis, airway inflammation, allograft rejection, inflammatory bowel disease, psoriasis, cancer, and multiple sclerosis. Human, mouse, and rat IL-17A show activity on mouse cells.

<b>Length</b>	134 / 268 aa
<b>Molecular Weight</b>	15.1 / 30.2 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	Q62386
<b>Purity</b>	≥95% determined by reducing and non-reducing SDS-PAGE

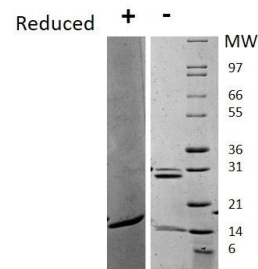
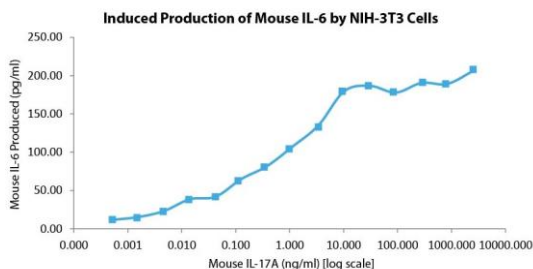
### Specifications

<b>Alternative Names</b>	Interleukin-17A, interleukin 17A, IL17A, IL 17A
<b>Biological Activity</b>	Mouse IL-17A is fully biologically active when compared to standard. The activity is determined by the ability to produce mouse IL-6 by NIH-3T3 cells and it is typically less than 5 ng/ml. This corresponds to an expected specific activity of $2 \times 10^5$ 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 0.1% Trifluoroacetic Acid (TFA)
<b>AA Sequence</b>	MAAII PQSSA CPNTEAKDFL QNVKVN LKVF NSLGAKVSSR RPSDYLNRST SPWTLHRNED PDRYPSVIWE AQCRHQRCVN AEGKLDHNM SVLIQQEILV LKREPESCPF TFRVEKMLVG VGCTCVASIV RQAA

### 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 water 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 production of mouse IL-6 by NIH-3T3 cells. Production of mouse IL-6 was measured to calculate the ED50, which is as expected less than 5 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-17A has a predicted Mw of 30.2 kDa (each monomer is 15.1 kDa).