

GFM59AF 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.

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

Length	134 / 268 aa
Molecular weight	15.1 / 30.2 kDa
Source	E. coli
Accession number	Q62386
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

Specifications

Alternative names	Interleukin-17A, interleukin 17A, IL17A, IL 17A
Biological activity	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 x 10 ⁵ units/mg.
Endotoxin level	≤1.00 EU/μg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
AA sequence	MAAII PQSSA CPNTEAKDFL QNVKVN LKVF NSLGAKVSSR RPSDYLN RST SPWTLHRNED PDRYPSVIWE AQCRHQRCVN AEGKLDHMMN SVLIQQEILV LKREPESCPF TFRVEKMLVG VGCTCVASIV RQAA

Preparation and storage

Reconstitution	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.
Stability and Storage	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

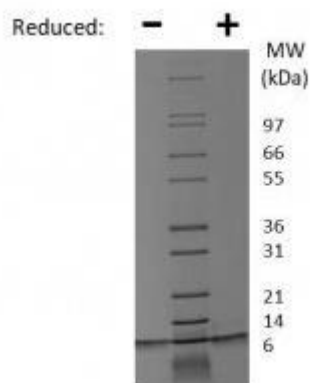


Figure: 1 μg run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human TGF-α is predicted to have a MW of 5.6 kDa.