

GFH161 Recombinant Human IL-17A/F

Description

Interleukin-17A/F (IL-17A/F) is a heterodimer that is composed of the interleukin-17A (IL-17A) and interleukin-17F (IL-17F) members of the IL-17 family of cytokines. IL-17A/F is produced by T helper 17 cells (Th17) following interleukin-23 (IL-23) stimulation. IL-17A/F signals through the IL-17RA/IL-17RC receptor complex and functions to regulate inflammatory responses. IL-17A/F induces chemokine and airway neutrophilia production, similar in function to IL-17A and IL-17F homodimers. In regard to these functions, IL-17A/F is less active than the IL-17A homodimer and shows greater activity than the IL-17F homodimer. Human and rat IL-17A/F are active on mouse cells.

Length	137 / 274 aa
Molecular Weight	15.7 / 31.3 kDa
Source	E. coli
Accession Number	Q16552
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

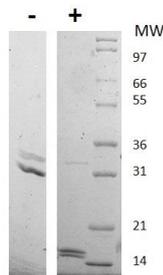
Specifications

Alternative Names	Interleukin-17A, interleukin 17A, IL17A, IL 17A
Biological Activity	Human IL-17A/F is fully biologically active when compared to standard. The activity is determined by the ability to produce mouse IL-3 by 3T3 cells and it is typically less than 50 ng/ml. This corresponds to an expected specific activity of 2.0×10^4 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	MIVKAGITIP RNPGPCNSED KNFPRTVMVN LNIHNRNTNT NPKRSSDYNN RSTSPWNLHR NEDPERYPSV IWEAKCRHLG CINADGNVDY HMNSVPIQQE IILVLRREPPH CPNSFRLEKI LVSVGCTCVT PIVHHVA

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 10 mM HCl 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



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. Human IL-17A/F is a heterodimer and has a predicted Mw of 30.7 kDa.