

GFH191AF Recombinant Human IL-5 (Animal-Free)

Description

Interleukin-5 (IL-5) is a hematopoietic growth factor that is expressed in type 2 T helper (Th2) cells, mast cells, and eosinophils. IL-5 acts through the IL-5 receptor (IL-5R), stimulates B cell growth, and mediates eosinophil activation. Human and mouse IL-5 show cross-reactivity.

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

Length	116 / 232 aa
Molecular Weight	13.3 / 26.6 kDa
Source	E. coli
Accession Number	P05113
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

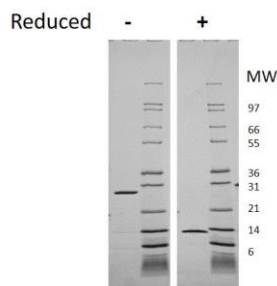
Specifications

Alternative Names	Interleukin-5, interleukin 5, IL5, IL 5, B-cell differentiation factor 1, eosinophil differentiation factor, TFR
Biological Activity	Human IL-5 (Animal-Free) is fully biologically active when compared to standard. The activity is determined by the ability to induce TF-1 cells proliferation and it is typically less than 250 pg/ml. This corresponds to an expected specific activity of 4×10^6 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 10 mM sodium glycinate, pH 8.5
AA Sequence	MIPTTEIPTSA LVKETLALLS THRTLIIANE TLRI PVPVHK NHQLCTEEIF QGIGTLESQT VQGGTVERLF KNLSLIKKYI DGQKKKCGEE RRRVNQFLDY LQEF LGVMNT EWIIES

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



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-5 has a predicted Mw of 26.6 kDa (each monomer is 13.3 kDa).