

## GFH191 Recombinant Human IL-5

### 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.

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

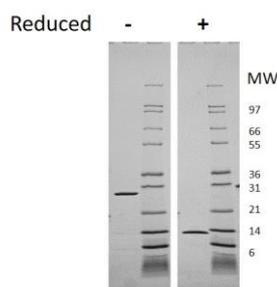
### Specifications

<b>Alternative Names</b>	Interleukin-5, interleukin 5, IL5, IL 5, B-cell differentiation factor I, eosinophil differentiation factor, TFR
<b>Biological Activity</b>	Human IL-5 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 $4 \times 10^6$ 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 glycinate, pH 8.5
<b>AA Sequence</b>	MIPTEIPTSA LVKETLALLS THRTLLIANE TLRIPVPVHK NHQLCTEEIF QGIGTLESQT VQGGTVERLF KNLSLIKYYI DGQKKKCGEE RRRVFNQFLDY LQEFGLGVMNT EWIIIES

### 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



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).