

## GFH12 Recombinant Human IL-2

### Description

Interleukin-2 (IL-2) is an immunomodulatory cytokine that is produced by lymphocytes. IL-2 signals through the IL-2R receptor to induce activated T cell proliferation and promote T cell differentiation. IL-2 also stimulates the proliferation and differentiation of B cells, Natural Killer cells, monocytes, and macrophages.

<b>Length</b>	134 aa
<b>Molecular Weight</b>	15.5 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	P60568
<b>Purity</b>	≥95% determined by reducing and non-reducing SDS-PAGE

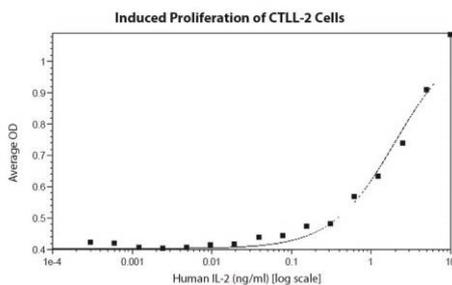
### Specifications

<b>Alternative Names</b>	Interleukin-2, interleukin 2, IL2, IL 2, T cell growth factor, TCGF, Aldesleukin
<b>Biological Activity</b>	Human IL-2 is fully biologically active when compared to standard. The activity is determined by the ability to induce CTLL-2 cells proliferation and it is typically less than 3 ng/ml. This corresponds to an expected specific activity of $3.3 \times 10^5$ 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>	MAPTSSSTKK TQLQLEHLLL DLQMLNGIN NYKNPKLTRM LTFKPYMPKK ATELKHLQCL EELKPLEEV LNLAQSKNFH LRPRDLISNI NVIVLELKGS ETTFMCEYAD ETATIVEFLN RWITFCQSII STLT

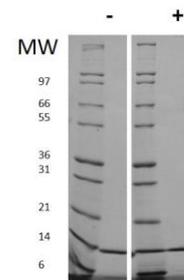
### Preparation and Storage

<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 10 mM HCl 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 proliferation of CTLL-2 cells assay for Human IL-2. Cell proliferation was measured to calculate the ED50, which is as expected less than 3 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. Human IL-2 has a predicted Mw of 15.5 kDa.