

Active GMP Recombinant Human IL2 Protein

Cat. No. IL2-152HG Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL2 (Ala21-Thr153) with a 6His tag at the C-terminus was produced in HEK293 cell in an animal component free process under cGMP guidelines.
Species	Human
Source	HEK293
ProteinLength	21-153 a.a.
Description	Interleukin-2(IL-2) is an interleukin, a type of cytokine signaling molecule in the immune system belongs to the IL-2 family. It is a powerful immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. IL-2/IL-2R signaling is required for T-cell proliferation and other fundamental functions that are essential for the immune response. IL-2 stimulates growth and differentiation of B-cells, NK cells, lymphokine-activated killer cells, monocytes, macrophages and oligodendrocytes.
Form	Lyophilized.
Bio-activity	Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. The ED50 for this effect is typically 0.02-0.3ng/mL. Specific Activity of 1.0×10^7 IU/mg.
AA Sequence	APTSSSTKKTQLQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLQC

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	<p>LEEELKP LEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVES LNRWITFCQSIIS TLTVDHHHHHHH</p>
Residual Host Cell DNA Content	<10pg/mg
Residual Host Cell Protein Content	<1ug/mg
Endotoxin	<0.1EU/ug
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Usage	Recommemnd working concentration: 30ng/ml or 300U/ml
Storage	Lyophilized and reconstituted protein should be stored at -80 centigrade. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Reconstitution	<p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration >100µg/ml. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Quality Statement	<p>Our GMP proteins are produced according to relevant sections of the following documents: WHO TRS, No. 822, 1992 Annex 1, Good Manufacturing Practices for Biological Products; USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and USP Chapter 92, Growth Factors and Cytokines Used in Cell Therapy Manufacturing.</p>
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

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GENE INFORMATION**Gene Name** IL2 interleukin 2 [Homo sapiens]**Official Symbol** IL2**Synonyms** IL2; interleukin 2; interleukin-2; IL 2; T cell growth factor; TCGF; aldesleukin; IL-2; lymphokine**Gene ID** 3558**mRNA Refseq** NM_000586**Protein Refseq** NP_000577**MIM** 147680**UniProt ID** P60568 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA