

Overview

Synonyms	rHuIL-2; rHuIL2; Interleukin-2; Interleukin2
Description	<i>In vitro</i> studies performed on human cell lines demonstrate the immunoregulatory properties of Interleukin-2 (IL-2) including: 1) enhancement of lymphocyte mitogenesis and stimulation of long-term growth of human Interleukin-2 (IL-2) dependent cell lines; 2) enhancement of lymphocyte cytotoxicity; 3) induction of killer cell (lymphokine-activated (LAK) and natural (NK)) activity; 4) induction of interferon-gamma production. Recombinant human Interleukin-2 (IL-2) is a highly purified protein with a molecular weight of approximately 15,300 Da. The chemical name is des-alanyl-1, serine-125 human interleukin-2. It is produced by recombinant DNA technology using a genetically engineered <i>E. coli</i> strain containing an analog of the human Human Interleukin-2 (IL-2) gene.
Species	Human
Source	<i>E. coli</i>
Biological Activity	The ED ₅₀ as determined by the dose-dependant stimulation of the proliferation of CTLL-2 was found to be < 0.1 ng/ml, corresponding to a specific activity of > 1x10 ⁷ IU/mg. Ala ²¹ -Thr ¹⁵³ (Accession #: P60568), With a N-terminal Met
Sequence	MAPTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTR MLTFKFFYMPKKATELKHLLQCLEEELKPLEEVLNLAQSKN FHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVE FLNRWITFCQSIISTLT

Properties

Measured Molecular Weight	15,300 Da
Purity	Greater than 95% as determined by the following methods: (a) SEC-HPLC analysis (b) Reducing and non-reducing SDS-PAGE silver-stained gel analysis
Formulation	The protein was lyophilized after extensive dialysis against 50mM Phosphate buffer, pH7.5, 5% Mannitol buffer.
Reconstitution	It is recommended to reconstitute the lyophilized recombinant human Interleukin-2 (IL-2) in sterile 18 MΩ-cm H ₂ O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Endotoxin Level	Less than 0.1 ng/µg (1 EU/µg) of recombinant human Interleukin-2 (IL-2) as determined by LAL test.
Sequence Analysis	The sequence of the first five N-terminal amino acids has been found to be Met-Ala-Pro-Thr-Ser-Ser.
Storage	Lyophilized recombinant human Interleukin-2 (IL-2) remains stable at room temperature for three weeks, but it is best stored desiccated below -18°C. Upon reconstitution recombinant human Interleukin-2 (IL-2) should be stored at 4°C for up to seven days. For long term storage it is recommended that a carrier protein (0.1% HSA or BSA) be added. Avoid repeated freeze-thaw cycles.
Note	For research use only

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