

Interleukin-2 Active Protein | IL 2 active protein

Recombinant Human Interleukin-2

CATALOG # AAA38109	HOST E Coli
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PRODUCT SYNONYMS

Interleukin-2; Recombinant Human Interleukin-2; IL 2 Human; Interleukin-2 Human Recombinant; T-cell growth factor (TCGF); Aldesleukin; Lymphokine; IL-2; IL 2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The protein (1mg/ml) was lyophilized after extensive dialysis against 20mM PBS pH=7.4. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	MAPTSSSTKK TQLQLEHLLL DLQMILNGIN NYKNPKLTRM LTFKFYMPKK ATELKHLQCL EEELKPLEEV LNLAQSKNFH LRPRDLISNI NVIVLELKGS ETTFMCEYAD ETATIVEFLN RWITFCQSII STL T
Sequence Length	153
Solubility	It is recommended to reconstitute the lyophilized Interleukin 2 in sterile distilled water or 20mM AcOH not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 as determined by the dose-dependant stimulation of murine CTLL-2 cells is < 0.1 ng/ml, corresponding to a Specific Activity of 10,000,000 IU/mg.
Preparation and Storage	Lyophilized Interleukin-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution IL2 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for IL 2 active protein	Description: Interleukin-2 Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 134 amino acids and having a molecular mass of 15kDa. The IL-2 is purified by proprietary chromatographic techniques. Introduction: IL2 is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL4) and interleukin 7 (IL7). The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli.
Product Categories/Family for IL 2 active protein	Cytokines and Growth Factors ; Cytokines ; Interleukin

NCBI AND UNIPROT INFORMATION

NCBI GI #	28178861
NCBI GeneID	3558

NCBI Accession #	NP_000577.2
NCBI GenBank Nucleotide #	NM_000586.3
UniProt Accession #	P60568 ; P01585
Molecular Weight	17,628 Da
NCBI Official Full Name	interleukin-2
NCBI Official Synonym Full Names	interleukin 2
NCBI Official Symbol	IL2
NCBI Official Synonym Symbols	IL-2; TCGF; lymphokine
NCBI Protein Information	interleukin-2; T cell growth factor; aldesleukin; involved in regulation of T-cell clonal expansion
UniProt Protein Name	Interleukin-2
UniProt Gene Name	IL2
UniProt Synonym Gene Names	IL-2; TCGF
UniProt Entry Name	IL2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/e-coli-il-2-active-protein/interleukin-2/38109>