

Interleukin-2 Active Protein | rIL 2 active protein

Recombinant Rat Interleukin-2

CATALOG #
AAA38183

HOST
E Coli

PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The protein (1mg/ml) was lyophilized without any additives.
Sequence	Thesequenc eofthefirs ftiveN-ter minalamino acidswasde terminedan dwasfoundt obeMet-Ala -Pro-Thr-S er
Sequence Length	155
Physical Appearance	Sterile Filtered White Lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized Interleukin 2 in sterile 100mM AcOH not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Protein Content	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.535 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of IL-2 as a Reference Standard.
Biological Activity	The ED50 as determined by the dose-dependant stimulation of murine CTLL-2 cells is 0.1-0.4 ng/ml corresponding to a specific activity of 2,500,000-10,000,000 units/mg.
Preparation and Storage	Lyophilized Interleukin-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution IL2 should be stored at 4° C between 2-7 days and for future use below -18°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 rIL 2 active protein	Description: Interleukin-2 Rat Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 134 amino acids and having a molecular mass of 17kDa. 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 rIL 2 active protein	Cytokines and Growth Factors; Cytokines; Interleukin

NCBI AND UNIPROT INFORMATION

NCBI GI #	16758692
NCBI GeneID	116562
NCBI Accession #	NP_446288.1
NCBI GenBank Nucleotide #	NM_053836.1
UniProt Accession #	P17108
Molecular Weight	17,633 Da
NCBI Official Full Name	interleukin-2
NCBI Official Synonym Full Names	interleukin 2
NCBI Official Symbol	IL2
NCBI Protein Information	interleukin-2; IL-2; T-cell growth factor; TCGF
UniProt Protein Name	Interleukin-2
UniProt Gene Name	IL2
UniProt Synonym Gene Names	IL-2; IL-2; TCGF
UniProt Entry Name	IL2_RAT

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-ril-2-active-protein/interleukin-2/38183>