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32-1382: IL 2 Recombinant Protein

Alternative Name : T-cell growth factor (TCGF),Aldesleukin,Lymphokine,IL-2.

Description

Source : Escherichia Coli. 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. 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 Info

Amount :	50 µg
Purification :	Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The protein (1mg/ml) was lyophilized after extensive dialysis against 20mM PBS pH=7.4.
Storage condition :	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.
Amino Acid :	MAPTSSSTKK TQLQLEHLLL DLQMILNGIN NYKNPKLTRM LTFKFYMPKK ATELKHLQCL EEELKPLEEV LNLAQSKNFH LRPRDLISNI NVIVLELKGS ETTFMCEYAD ETATIVEFLN RWITFCQSII STLT.

Application Note

It is recommended to reconstitute the lyophilized Interleukin 2 in 20mM AcOH not less than 100ÃÂµg/ml, which can then be further diluted to other aqueous solutions. 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.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.