



Product Datasheet

Product Name	Recombinant Mouse Interleukin-2
Cata No	CB500272
Source	Escherichia Coli
Synonyms	T-cell growth factor (TCGF), Aldesleukin, Lymphokine, IL-2.

Description

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. Interleukin-2 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 149 amino acids and having a molecular mass of 17231 Dalton. The IL-2 is purified by proprietary chromatographic techniques.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Biological Activity

The ED50 range=0.1-0.4 ng/ml ,as determined by the dose-dependant stimulation of murine CTLL-2 cells.

Formulation

The protein (1mg/ml) was lyophilized after carrier free

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.

It is recommended to reconstitute the lyophilized Interleukin 2 in sterile 100mM AcOH to a concentration of 0.1-1.0 mg/mL to regain full activity, which can then be further diluted to other aqueous solutions.

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