
Product Data Sheet

Product Name: IL 2 Human, HEK
 Cat. No.: GP20473
 Batch No.: 1

Product Data

Purity >98% Source HEK.
 Physical Appearance solid Shipping Condition Shipped at Room temp.

Synonyms T-cell growth factor (TCGF); Aldesleukin; Lymphokine; IL-2.

Amino Acid Sequence APTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLCLE
 EELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFCQSIISTLT.

Solubility It is recommended to reconstitute the lyophilized IL-2 in sterile PBS containing 0.1% endotoxin-free recombinant HSA.

Formulation The IL2 was lyophilized from 0.2µm filtered solution containing 0.76mg/ml protein in 1xPBS.

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.

Biological Activity

The specific activity as determined by the dose-dependent stimulation of the proliferation of mouse CTLL-2 cells (mouse cytotoxic T cell line) was measured to be 1.57ng/ml.

Stability

Lyophilized IL-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.

Background

Interleukin-2 Human Recombinant produced in HEK cells is a glycosylated monomer, having a total molecular weight of 15kDa. The IL2 is purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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