
Product Data Sheet

Product Name: IL 2 Human, Yeast
 Cat. No.: GP20481
 Batch No.: 1

Product Data

Purity	>98%	Source	Pichia pastoris.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Interleukin-2; T-cell growth factor (TCGF); Aldesleukin; Lymphokine; IL-2.		
Amino Acid Sequence	<p>A P T S S S T K K T Q L Q L E H L L L D L Q M I L N G I N N Y K N P K L T R M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E V L N L A Q S K N F H L R P R D L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F C Q S I I S T L T.</p>		
Solubility	It is recommended to reconstitute the lyophilized Interleukin-2 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a 0.2µm filtered solution in 20mM sodium phosphate buffer pH 7.0 in absence of any carrier protein.		

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 biological activity is determined by the dose dependent proliferation of mouse CTLL_κC2 cells. Optimal concentration for individual application should be determined by a dose response assay. ED50 range = 0.08µC0.5ng/ml

Stability

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

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Lyophilized Interleukin-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution Interleukin-2 should be stored at 4C between 2-7 days and for future use below -18C. Please prevent freeze-thaw cycles.

Background

Interleukin-2 Human Recombinant produced in yeast is a single, glycosylated polypeptide chain containing 134 amino acids and having a molecular mass of 14 kDa. The IL-2 is purified by proprietary chromatographic techniques.

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