
Product Data Sheet

Product Name: IL 2 Porcine
 Cat. No.: GP20476
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	T-cell growth factor (TCGF); Aldesleukin; Lymphokine; IL-2.		
Amino Acid Sequence	APTSSSTKNT KKQLEPLLLD LQLLLKEVKN YENADLSRML TFKFYMPKQA TELKHLQCLV EELKALEGLV NLGQSKNSDS ANIKESMNNI NVTVLELKGS ETSFKCEYDD ETVTAVEFLN KWITFCQSIY STLT.		
Solubility	It is recommended to reconstitute the lyophilized IL 2 in sterile distilled H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein (1mg/ml) was lyophilized was lyophilized from a 0.2µm filtered concentrated solution in 16 ⁺ PBS, pH 7.4.		

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 ED50 as determined by a cell proliferation assay using murine CTLL-2 cells is less than 0.5ng/ml, corresponding to a specific activity of > 2.0 6⁺ 10⁶ IU/mg.

Stability

Lyophilized IL2 although stable at room temperature for 3 weeks, should be stored

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

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desiccated below -18°C . Upon reconstitution IL-2 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

Interleukin2 Porcine Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 134 amino acids and having a molecular mass of 15217 Dalton. The IL-2 is purified by proprietary chromatographic techniques.

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