9051 Mira Mesa Blvd, #910094
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Tel: 760-390-3989

IL 2 Human, Yeast

Interleukin-2 Human Recombinant, Yeast
CYK0291

Product Overview

Name	IL 2 Human, Yeast
Description	
Interleukin-2 Human Recombinant, Yeast	
Accession (Primary)	P60568
Synonyms	
Interleukin-2, T-cell growth factor (TCGF), Interleukin-2, Lymphokine, IL-2.	
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.	
Source	
Pichia pastoris.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a 0.2 μm filtered solution in 20mM sodium phosphate buffer pH 7.0 in absence of any carrier protein.	
Stability	
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.	
Purity	
Greater than 98% as determined by SDS-PAGE.	
Amino acid sequence	
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	

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I V E F L N R W I T F C Q S I I S T L T.

Biological Activity

The biological activity is determined by the dose dependent proliferation of mouse CTLL−2 cells. Optimal concentration for individual application should be determined by a dose response assay. ED50 range = 0.08−0.5ng/ml

Solubility

It is recommended to reconstitute the lyophilized Interleukin-2 in sterile 18M-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

IL 2 Human, Yeast is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P60568)