9051 Mira Mesa Blvd, #910094
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IL 2 Mouse

Interleukin-2 Mouse Recombinant
CYK0292

Product Overview

Name	IL 2 Mouse
Description	
Interleukin-2 Mouse Recombinant	
Accession (Primary)	P04351
Synonyms	
Interleukin-2, T-cell growth factor (TCGF), 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	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2 µm filtered concentrated solution (1mg/ml) in 20mM PBS, pH 7.4.	
Stability	
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.	
Purity	
Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
PTSSSTSSST AEAQQQQQQQ QQQQQHLEQL LMDLQELLSR MENYRNLKLP RMLTFKFYLP KQATELKDLQ CLEDELGPLR HVLDLTQSKS FQLEDAENFI SNIRVTVVKL KGSDNTFECQ FDDESATVVD FLRRWIAFCQ SIISTSPQ.	

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Biological Activity

The ED 50 as determined by the dose-dependant stimulation of murine CTLL-2 cells is less than 0.2ng/ml corresponding to a Specific Activity of 5x10 6 IU/mg.

Solubility

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

Protein content

Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.482 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of IL-2 as a Reference Standard.

Precautions

IL 2 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P04351)