

Active Recombinant Porcine IL2 Protein

Cat. No. IL2-83P Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Porcine IL2 was expressed in E. coli.
Species	Porcine
Source	E.coli
ProteinLength	134 amino acids
Description	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.
Form	The protein (1mg/ml) was lyophilized from a 0.2μ filtered concentrated solution in 1×PBS, pH 7.4.
Bio-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 $> 2.0 \times 10^6$ IU/mg.
Molecular Mass	15217 Dalton

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AA Sequence	APTSSSTKNT KKQLEPLLLD LQLLLKEVKN YENADLSRML TFKFYMPKQA TELKHLQCLV EELKALEGVL NLGQSKNSDS ANIKESMNNI NVTVLELKGS ETSFKCEYDD ETVTAVEFLN KWITFCQSIY STLT.
Purity	Greater than 96.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Storage	Lyophilized IL2 although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution IL-2 should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Reconstitution	It is recommended to reconstitute the lyophilized IL 2 in sterile distilled H2O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	IL2 interleukin 2 [<i>Sus scrofa</i>]
Official Symbol	IL2
Synonyms	IL-2; TCGF; POIL2; T-cell growth factor
Gene ID	396868
mRNA Refseq	NM_213861
Protein Refseq	NP_999026

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UniProt ID

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