

Growth Factor Data Sheet

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IL2 is a powerful immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. It is expressed by CD4+ and CD8+ T-cells, $\gamma\delta$ T-cells, B-cells, dendritic cells, and eosinophils. The receptor for IL2 (IL2R) consists of three subunits (55 kDa IL2RI, 75 kDa IL2RJ, 64 kDa common gamma chain Gc/IL2RG) that are present on the cell surface in varying preformed complexes. IL2/IL2R signaling is required for T-cell proliferation and other fundamental functions which are essential for an immune response. Recombinant porcine IL2 shares about 72% amino acid sequence identity with mouse, human and rat IL2. It also shares 60% and 67% acid sequence identity with rhesus macaque and *Equus caballus* IL2, respectively.

Catalog Number	1810-02
Product Name	IL2, Porcine Recombinant Porcine Interleukin-2 IL2 Interleukin 2 T-cell Growth Factor (TCGF)
Source	<i>Escherichia coli</i>
MW	~15.2 kDa (134 amino acids)
Sequence	APTSSSTKNT KKQLEPLLLD LQLLLKEVKN YENADLSRML TFKFYMPKQA TELKHLQCLV EELKALEGVL NLGQSKNSDS ANIKESMNNI NVTVLELKGS ETSFKCEYDD ETVTAVEFLN KWITFCQSIY STLT
Accession Number	P26891
Purity	>97% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine CTLL-2 cells is less than 0.5 ng/ml, corresponding to a specific activity of $>2.0 \times 10^6$ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.