

Recombinant Porcine IL-2 Protein

Product Information

Product Name	Cat#	Size
	90183ES10	10 μg
Recombinant Porcine IL-2 Protein	90183ES60	100 μg
	90183ES76	500 μg

Product Description

Interleukin 2 was initially identified as a T cell growth factor that is produced by T cells following activation by mitogens or antigens. Since then, it has been shown that in addition to its T cell growth factor activity, IL-2 can also stimulate the growth and differentiation of B cells, natural killer (NK) cells, lymphocyte activated killer (LAK) cells, monocytes/macrophages and oligodendrocytes. At the amino acid sequence level, there is approximately 72% similarity between mature porcine and human IL-2.

The biological activity of IL-2 is mediated by the binding of IL-2 to cell surface receptor complexes. The functional high-affinity receptor of IL-2 is composed of three distinct polypeptide chains, the IL-2 receptor alpha, beta and gamma subunits. The intermediate-affinity IL-2 receptor complex, which lacks the alpha subunit, but contains both the beta and gamma subunits, is also capable of transducing the IL-2 signal. In T cells, the beta and gamma subunits are shared with the IL-15 receptor complex. The gamma chain of the IL-2 receptor complex has also been shown to be a subunit of the receptor complexes of IL-4, IL-7, and IL-9.

Product Properties

Synonyms	T-cell Growth Factor, TCGF			
Accession	P26891			
GeneID	396868			
Source	E.coli-derived Porcine IL-2, Ala21-Thr154.			
Molecular Weight	Approximately 15.2 kDa.			
	APTSSSTKNT KKQLEPLLLD LQLLLKEVKN YENADLSRML TFKFYMPKQA			
AA Sequence	TELKHLQCLV EELKALEGVL NLGQSKNSDS ANIKESMNNI NVTVLELKGS			
	ETSFKCEYDD ETVTAVEFLN KWITFCQSIY STLT			
Tag	None			
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.			
Purity	> 96% by SDS-PAGE and HPLC analyses.			
	The ED_{50} as determined by a cell proliferation assay using murine CTLL-2 cells is less than 0.5			
Biological Activity	ng/mL, corresponding to a specific activity of $> 2.0 \times 10^6$ IU/mg. Fully biologically active when			
	compared to standard.			
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.			
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in 1 \times PBS, pH 7.4.			
	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the			
Reconstitution	bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a			
	concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and			
	stored at \leq -20°C. Further dilutions should be made in appropriate buffered solutions.			

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Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C for 1 year.

1 month, 2 to 8 °C under sterile conditions after reconstitution.

3 months, -20 °C under sterile conditions after reconstitution.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

- 1. Avoid repeated freeze-thaw cycles.
- 2. For your safety and health, please wear lab coats and disposable gloves for operation.
- 3. For research use only!

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