

Recombinant Porcine Interleukin-15

Cat. No. IL15-80P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Porcine Interleukin-15 produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain containing 114 amino acids and having a molecular mass of 13,118 Dalton. The IL-15 is purified by proprietary chromatographic techniques.
Species	Pig
Source	E.coli
Description	Interleukin 15 (IL-15) is a cytokine with structural similarity to IL-2. Like IL-2, IL-15 binds to and signals through the IL-2/IL-15 beta chain (CD122) and the common gamma chain (gamma-C, CD132). IL-15 is secreted by mononuclear phagocytes (and some other cells) following infection by virus(es).
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Thr-Trp-Gln-His-Val.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The protein was lyophilized from a concentrated (1 mg/ml) solution containing no additives.
Solubility	It is recommended to reconstitute the lyophilized Interleukin-15 in sterile 18 MΩ-cm

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	H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Specific Activity	The ED50 as determined by the dose-dependant stimulation of the proliferation of mouse CTLL-2 was found to be < 0.2 ng/ml.
Protein Content	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.638 as the extinction coefficient for a 0.1% (1 mg/ml) solution. This value is calculated by the PC GENEcomputer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of IL-15 as a Reference Standard.
Stability	Lyophilized Interleukin-15 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL15 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.
Pathways	Cytokine-cytokine receptor interaction; Intestinal immune network for IgA production; Jak-STAT signaling pathway

GENE INFORMATION

Gene Name	IL15 interleukin 15 [Sus scrofa]
Synonyms	IL15; interleukin 15; IL-15; interleukin-15
Gene ID	397683
mRNA Refseq	NM_214390

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Protein Refseq NP_999555

UniProt ID Q95253

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