Active Recombinant Porcine IL4 Protein

Cat. No. IL4-180P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Porcine IL4 Protein without tag was expressed in E. coli.
Species	Porcine
Source	E.coli
Description	Interleukin 4 (IL-4) is an immunomodulatory cytokine that functions to induce naïve helper T cells to differentiate into type 2 T helper (Th2) cells. Th2 cells subsequently produce more IL-4 in a positive feedback loop. IL-4 also promotes immunoglobulin IgG to IgE isotype switching on B cells. IL-4 binds the IL-4Rα receptor to activate STAT6 signaling.
Bio-activity	TF-1 cell proliferation, ED50≤2 ng/mL
Molecular Mass	Monomer, 12.7 kDa (with 110 amino acids)
AA Sequence	MHKCDITLQEIIKTLNILTARKNSCMELPVTDVFAAPENTTEKETFCRASTVLRHIYRH HTCMKSLLSGLDRNLSSMANMTCSVHEAKKSTLKDFLERLKTIMKEKYSKC
Endotoxin	≤1 EUs/μg, Kinetic LAL (50% confidence)
Purity	≥95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed.

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	3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	IL4 interleukin 4 [Sus scrofa (pig)]
Official Symbol	IL4
Synonyms	IL4; interleukin 4; interleukin-4; IL-4; BSF-1; B-cell stimulatory factor 1; lymphocyte stimulatory factor 1;
Gene ID	397225
mRNA Refseq	NM_214123
Protein Refseq	NP_999288

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UniProt ID	Q04745

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