

Active Recombinant Porcine IL4 Protein

Cat. No. IL4-181P 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-4R α receptor to activate STAT6 signaling.
Bio-activity	TF-1 cell proliferation, ED50 \leq 2 ng/mL
Molecular Mass	Monomer, 12.7 kDa (with 110 amino acids)
AA Sequence	MHKCDITLQEIIKTLNILTARKNSCMELPVTDVFAAPENTTEKETFCRASTVLRHIYRH HTCMKSLLSGLDRNLSSMANMTCSVHEAKKSTLKDFLERLKTIMKEKYSKC
Endotoxin	\leq 1 EUs/ μ g, Kinetic LAL (50% confidence)
Purity	\geq 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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