

# Active GMP Recombinant Porcine IL4 Protein, His-Tagged

Cat. No. IL4-01P Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	GMP Recombinant Porcine IL4 Protein, His-Tagged was expressed in Escherichia coli cell-derived in an animal component free process under cGMP guidelines.
<b>Species</b>	Porcine
<b>Source</b>	E.coli
<b>Description</b>	The interleukin 4 (IL4, IL-4) is a cytokine that induces differentiation of naive helper T cells (Th0 cells) to Th2 cells. Upon activation by IL-4, Th2 cells subsequently produce additional IL-4 in a positive feedback loop. The cell that initially produces IL-4, thus inducing Th2 differentiation, has not been identified, but recent studies suggest that basophils may be the effector cell. It is closely related and has functions similar to Interleukin 13.
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	Measure by its ability to induce proliferation in TF-1 cells. The ED50 for this effect is <0.6 ng/mL.
<b>AA Sequence</b>	MHKCDITLQEIIKTLNILTARKNSCMELPVTDVFAAPENTTEKETFCRASTVLRHIYRH HTCMKSLLSGLDRNLSSMANMTCSVHEAKKSTLKDFLERLKTIMKEKYSKC with polyhistidine tag at the C-terminus
<b>Endotoxin</b>	<0.1 EU per 1 µg of the protein by the LAL method.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	>98% as determined by SDS-PAGE. Ni-NTA chromatography
<b>Notes</b>	Please use within one month after protein reconstitution.
<b>Storage</b>	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
<b>Storage Buffer</b>	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

## GENE INFORMATION

<b>Gene Name</b>	IL4 interleukin 4 [ <i>Sus scrofa</i> (pig) ]
<b>Official Symbol</b>	IL4
<b>Gene ID</b>	397225
<b>mRNA Refseq</b>	NM_214123.1
<b>Protein Refseq</b>	NP_999288.1
<b>UniProt ID</b>	Q04745

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