9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

IL-4 Porcine

Interleukin-4 Porcine Recombinant
CYK0452

Product Overview

Name	IL-4 Porcine
Description	
Interleukin-4 Porcine Recombinant	
Accession (Primary)	P05112
Synonyms	
BCGF, BCDF, B cell stimulating factor, BSF-1, Lymphocyte stimulatory factor 1, IL-4, MGC79402, Binetrakin, Pitrakinra.	
Introduction	
IL4 is a pleiotropic cytokine produced by activated T cells. IL4 is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which contributes to various overlapping roles of this cytokine and IL13. STAT6, a signal transducer and activator of transcription plays a main role in mediating the immune regulatory signal of this cytokine. IL4, IL3, IL5, IL13, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL13. IL4, IL13 and IL5 are regulated co-ordinately by several long-range regulatory elements in an over 120 kilobase range on the chromosome.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a sterile (0.2 µm) filtered solution containing 10 mM sodium phosphate, pH 7.5.	
Stability	
Lyophilized IL-4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-4 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
MHKCDITLQE IIKTLNILTA RKNSCMELPV TDVFAAPENT TEKETFCRAS TVLRHIYRHH TCMKSLLSGL	

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DRNLSSMANM TCSVHEAKKS TLKDFLERLK TIMKEKYSKC.

Biological Activity

The ED 50 , as determined by TF-1 cell proliferation is 0.504ng/ml corresponding to a specific activity which is 2.0 x 10^6 units/mg.

Solubility

It is recommended to reconstitute the lyophilized IL-4 in sterile 18MΩ-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

IL-4 Porcine is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P05112)