

83103 Avenue 48, Ste.1B #204 Coachella, CA 92236 USA Phone : +1.6268339877 Email : info@cali-bio.com

Product Datasheet

Product Name	Interleukin-4 Porcine Recombinant
Cata No	CB500300
Source	Escherichia Coli.
Synonyms	Interleukin-4, BCGF, BCDF, B cell stimulating factor, BSF-1, Lymphocyte stimulatory
	factor 1, IL-4, MGC79402, Binetrakin, Pitrakinra.

Description

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 may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. This gene, 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 found to be regulated coordinately by several long-range regulatory elements in an over 120 kilobase range on the chromosome. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. IL-4 Porcine Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 110 amino acids and having a molecular mass of 12615 Dalton.

The IL-4 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

The ED50 range= 1 to 4 ng/ml. The biological activity is determined by measuring the dose dependent proliferation of human TF-1 cells. A concentration range of 0.1 to 10.0 ng/ml is effective for most *in vitro* applications.

Purity

Greater than 95.0% as determined by: (a) Analysis by RP-HPLC.

- (b) Analysis by SDS-PAGE.

Formulation

Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.

Stability

Lyophilized Interleukin-4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL4 should be stored at 4°C between 2-7 days and for future use below -18°C.

Please prevent freeze-thaw cycles.

Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-His-Lys-Cys-Asp.