

IL-4 Protein, Human (HEK293)

Cat. No.:	HY-P70750
Synonyms:	Interleukin-4; IL-4; B-Cell Stimulatory Factor 1; BSF-1; Binetrakin; Lymphocyte Stimulatory Factor 1; Pitrakinra; IL4
Species:	Human
Source:	HEK 293
Accession:	P05112 (H25-S153)
Gene ID:	3565
Molecular Weight:	Approximately 18.0 kDa

PROPERTIES

AA Sequence	<p> H K C D I T L Q E I I K T L N S L T E Q K T L C T E L T V T D I F A A S K N T T E K E T F C R A A T V L R Q F Y S H H E K D T R C L G A T A Q Q F H R H K Q L I R F L K R L D R N L W G L A G L N S C P V K E A N Q S T L E N F L E R L K T I M R E K Y S K C S S </p>
Biological Activity	The cell proliferation assay using TF-1 human erythroleukemic cells has an ED50 value of 0.01-0.05 ng/mL. Cynomolgus IL-4RA-Fc can bind Human IL-4 with an affinity constant of 0.54 nM.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Interleukin-4 (IL-4) is a cytokine that plays an important role in regulating inflammation and immune responses. It induces the differentiation of naïve helper T cells to Th2 cells. This cytokine binds the IL-4 receptor that also binds another cytokine interleukin 13 (IL-13), which may explain the overlapping functions of IL-4 and IL-13. IL-4, originally designated as B-cell growth factor-1 (BSF1), is described in the supernatant of activated EL-4 thymoma cells as a factor that can co-stimulate B-cells activated with submitogenic concentrations of anti-IgM ^[1] .
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REFERENCES

[1]. Le HV, et al. Isolation and characterization of multiple variants of recombinant human interleukin 4 expressed in mammalian cells. J Biol Chem. 1988 Aug 5;263(22):10817-23.

Caution: Product has not been fully validated for medical applications. For research use only.

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