Recombinant Human Interleukin-4(rHu IL-4)

Catalog No: #70104

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Description

Product Name	Recombinant Human Interleukin-4(rHu IL-4)
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	> 98 % by SDS-PAGE and HPLC analyses.
Species Reactivity	Hu
Target Name	rHu IL-4
Other Names	BSF-1, Binetrakin, Lymphocyte stimulatory factor 1, Pitrakinra.
Accession No.	accession:P05112 GeneID:3565
Uniprot	P05112
GeneID	3565;
Calculated MW	Approximately 15.0 kDa, a sing
SDS-PAGE MW	Sterile Filtered White lyophil
Target Sequence	HKCDITLQEI IKTLNSLTEQ KTLCTELTVT DIFAASKNTT EKETFCRAAT VLRQFYSHHE KDTRCLGATA QQFHRHKQLI RFLKRLDRNL WGLAGLNSCP VKEANQSTLE NFLERLKTIM REKYSKCSS
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Storage	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze thaw cycles.

Background

Interleukin-4 (IL-4) is a pleiotropic cytokine that induces differentiation of naive helper T cells (Th0 cells) to Th2 cells and produced by by mast cells, activated T cells and bone marrow stromal cells. It has many biological roles, including the stimulation of activated B-cell and T-cell proliferation, and the differentiation of CD4+ T-cells into Th2 cells. In addition, It enhances both secretion and cell surface expression of IgE and IgG1 and also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes. The human IL-4 has a compact, globular fold, stabilised by 3 disulphide bonds. The human IL-4 shares about 40% aa sequence identity with mouse rat IL-4 and they are species-specific in their activities.

References

1. Sokol CL, Barton GM, Farr AG, et al. 2008. Nat Immunol. 9:310-8.1. Sokol CL, Barton GM, Farr AG, et al. 2008. Nat Immunol. 9:310-8.
2. Hershey GK, Friedrich MF, Esswein LA, et al. 1997. N Engl J Med. 337:1720-5.
3. Yokota T, Otsuka T, Mosmann T, et al. 1986. Proc Natl Acad Sci U S A. 83:5894-8.
4. Eder A, Krafft-Czepa H, Krammer PH. 1988. Nucleic Acids Res. 16:772.
5. Walter MR, Cook WJ, Zhao BG, et al. 1992. J Biol Chem. 267:20371-6.

Note: This product is for in vitro research use only