

Recombinant Human Interleukin-3(rHu IL-3)

Catalog No: #70103

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Description

Product Name	Recombinant Human Interleukin-3(rHu IL-3)
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	> 96 % by SDS-PAGE and HPLC analyses.
Species Reactivity	Hu
Target Name	rHu IL-3
Other Names	Hematopoietic growth factor, MCGF, Multipotential colony-stimulating factor, P-cell-stimulating factor.
Accession No.	accession:P08700 GeneID:3562
Uniprot	P08700
GeneID	3562;
Calculated MW	Approximately 15.0 kDa, a sing
SDS-PAGE MW	Sterile Filtered White lyophil
Target Sequence	APMTQTTSLK TSWVNCNMI DEIITHLKQP PLPLDFNNL NGEDQDILME NNLRRPNLEA FNRAVKSLQN ASAIESILKN LLPCPLPLATA APTRHPIHIK DGDWNEFRRK LTFYKLTLEN AQAQQTLSL AIF
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-3 (IL-3) is an interleukin, a type of biological signal (cytokine) which is encoded by the IL-3 gene located on chromosome 5 and produced primarily by activated T cells beside human thymic epithelial cells, activated murine mast cells, murine keratinocytes and neurons astrocytes. The protein acts in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. The human IL-3 reported to be a monomer, as it is known, contains 133 amino acids residues which is a single non-glycosylated polypeptide. Specifically, human and murine IL-3 share low homology and it does not show activity on murine cells.

References

1. Yang YC, Ciarletta AB, Temple PA, et al. 1986. Cell. 47:3-10.
2. Otsuka T, Miyajima A, Brown N, et al. 1988. J Immunol. 140:2288-95.
3. Dorssers L, Burger H, Bot F, et al. 1987. Gene. 55:115-24.
4. Feng Y, Klein BK, McWherter CA. 1996. J Mol Biol. 259:524-41.

Note: This product is for in vitro research use only