

Recombinant Human Interleukin-11(rHu IL-11)

Catalog No: #70111

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Description

Product Name	Recombinant Human Interleukin-11(rHu IL-11)
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Species Reactivity	Hu
Target Name	rHu IL-11
Other Names	AGIF
Accession No.	accession:P20809 GeneID:3589
Uniprot	P20809
GeneID	3589;
Calculated MW	Approximately 19.1 kDa, a sing
SDS-PAGE MW	Sterile Filtered White lyophil
Target Sequence	MPGPPPGPPR VSPDPRAELD STVLLTRSLD ADTRQLAAQL RDKFPADGDH NLDSLPTLAM SAGALGALQL PGVLTSLRAD LLSYLRHVQW LRRAGGSSLK TLEPELGLTQ ARLDRLRLRL QLLMSRLALP QPPDPAPP LAPPSSAWGG IRAAHAILGG LHLLTDWAVR GLLLLKTRL
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Storage	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.

Background

Interleukin-11 (IL-11) is encoded by the IL11 gene and is a member of IL-6 superfamily, distinguished based on their use of the common co-receptor gp130. It is a multifunctional cytokine first isolated from bone marrow-derived stromal cells. IL-11 receptor activation requires formation of a complex of two IL-11 molecules with two molecules of the ligand-binding IL-11R α subunit and two molecules of the expressed cell signaling β subunit, gp130. The functions of IL-11 are that it directly stimulates the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells, and induces megakaryocyte maturation resulting in increased platelet production.

References

1. McKinley D, Wu Q, Yang-Feng T, et al. 1992. Genomics. 13:814-9.
2. Paul SR, Bennett F, Calvetti JA, et al. 1990. Proc Natl Acad Sci U S A. 87:7512-6.
3. Barton VA, Hall MA, Hudson KR, et al. 2000. J Biol Chem. 275:36197-203.

Note: This product is for in vitro research use only