Recombinant Human Interleukin-21(rHu IL-21)

Catalog No: #70121

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Description

Product Name	Recombinant Human Interleukin-21(rHu IL-21)
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	> 97 % by SDS-PAGE and HPLC analyses.
Species Reactivity	Hu
Target Name	rHu IL-21
Other Names	Za11
Accession No.	accession:Q9HBE4 GeneID:59067
Uniprot	Q9HBE4
GeneID	59067;
Calculated MW	Approximately 15.4 kDa, a sing
SDS-PAGE MW	Sterile Filtered White lyophil
Target Sequence	QGQDRHMIRM RQLIDIVDQL KNYVNDLVPE FLPAPEDVET NCEWSAFSCF QKAQLKSANT GNNERIINVS IKKLKRKPPS TNAGRRQKHR LTCPSCDSYE KKPPKEFLER FKSLLQKMIH QHLSSRTHGS EDS
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

Human IL-21 is encoded by IL-21 gene located on Chr. 4. It is a pleiotropic cytokine produced by CD4+ T cells in response to antigenic stimulation and can regulating immune system cells, for instance cytotoxin T cells and natural killer cells. Additionally, it can induce target cells division or proliferation. IL-21 elicits its effect through binding to IL-21R, which also contains the gamma chain found in other cytokine receptors such as IL-2, IL-4, IL-7, IL-9 and IL-15. IL-21 IL-21R interaction triggers a cascade of events which includes activation of the tyrosine kinases JAK1 and JAK3, followed by activation of the transcription factors STAT1 and STAT3. IL-21 shows having much relation with clinical illnesses, including cancer immunotherapy, viral infections and allergies.

References

1. Pistoia VandCocco C. 2009. J Leukoc Biol, 85: 739-43.
2. Ertelt JM, Johanns TM, Rowe JH, et al. 2010. Immunology, 131: 183-91.
3. Denman CJ, Senyukov VV, Somanchi SS, et al. 2012. PLoS One, 7: e30264.
4. Spolski R, Wang L, Wan CK, et al. 2012. J Immunol, 188: 1924-32.

Note: This product is for in vitro research use only