

Recombinant Human IL21R Protein, His-tagged

Cat. No. IL21R-325H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IL21R protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	538
Description	The protein encoded by this gene is a cytokine receptor for interleukin 21 (IL21). It belongs to the type I cytokine receptors, and has been shown to form a heterodimeric receptor complex with the common gamma-chain, a receptor subunit also shared by the receptors for interleukin 2, 4, 7, 9, and 15. This receptor transduces the growth promoting signal of IL21, and is important for the proliferation and differentiation of T cells, B cells, and natural killer (NK) cells. The ligand binding of this receptor leads to the activation of multiple downstream signaling molecules, including JAK1, JAK3, STAT1, and STAT3. Knockout studies of a similar gene in mouse suggest a role for this gene in regulating immunoglobulin production. Three alternatively spliced transcript variants have been described.
Form	Lyophilized
Molecular Mass	25.8 kDa
AA Sequence	MPRGWAAPLLLLLLQGGWGCPDLVCYTDYLQTVICILEMWNLHPSTLTWTWQDQYE ELKDEATSCSLHRSAHNATHATYTCMDVVFHFMADDIFSVNITDQSGNYSQECGSF

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LLAESIKPAPPFNVTVTFSGQYNISWRSYEDPAFYMLKGKLQYELQYRNRGDPWA
 VSPRRKLISVDSRSVSLPLEFRKDSSYELQVRAGPMPGSSYQGTWSEWSDPVIFQ
 TQSEELKEGWNPHELLLLLLLVIVFIPAFWSLKTHTPLWRLWKKIWAVPSPERFFMPLYK
 GCSGDFKKWVGAPFTGSSLELGPWSPEVPSTLEVYSCHPPRSPAKRLQLTELQEP
 AELVESDGVKPSFWPTAQNSGGSAYSEERDRPYGLVSDITVTVLDAEGPCTWPC
 SCEDDGYPALDLDAGLEPSPGLEDPLLDAGTTVLSCGCVSAGSPGLGGPLGSLDDR
 LKPPLADGEDWAGGLPWGGRSPGGVSESEAGSPLAGLMDTFD SGFVGSDCSP
 VECDFTSPGDEGPSPRSYLRQWVIPPPLSSPGPQAS

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).
 After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18
 centigrade for future use.

Storage At -20 centigrade.

Concentration 1 mg/mL

Storage Buffer PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted
 stock further in other aqueous solutions if needed. Please review COA for lot-specific
 instructions. Final measurements should be determined by the end-user for optimal
 performance.

GENE INFORMATION

Gene Name IL21R interleukin 21 receptor [Homo sapiens (human)]

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Official Symbol	IL21R
Synonyms	IL21R; interleukin 21 receptor; interleukin-21 receptor; CD360; IL-21R; IL-21 receptor; novel interleukin receptor; NILR; MGC10967;
Gene ID	50615
mRNA Refseq	NM_021798
Protein Refseq	NP_068570
MIM	605383
UniProt ID	Q9HBE5

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