
Product Data Sheet

Product Name: IL21R Mouse
 Cat. No.: GP26058
 Batch No.: 1

Product Data

Purity >98% Source HEK293 Cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms Interleukin-21 receptor, IL-21 receptor, IL-21R, IL21r, Lymphocyte receptor beta, LR-beta, Novel interleukin receptor, Novel cytokine receptor 8, NR8, Novel interleukin receptor, CD360, CD360 antigen, NILR, Nilr.

Amino Acid Sequence
 CLDLTCYTDY LWTITCVLET RSPNPSILSL TWQDEYEELQ DQETFCSLHR
 SGHNTTHIWY TCHMRLSQFL SDEVFIVNVT DQSGNNSQEC GSFVLAESIK
 PAPPLNVTVA FSGRYDISWD SAYDEPSNYV LRGKLQYELQ YRNLRDPYAV
 RPVTKLISVD SRNVSLLEPEE FHKDSSYQLQ VRAAPQPGTS FRGTWSEWSD
 PVIFQTQAGE PEAGWDPHLE PKSCDKTHTC PPCPAPELLG GPSVFLFPPK
 PKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY
 NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP
 QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTTTP
 VLDSGGSFFL YSKLTVDKSR WQQGNVFCSS VMHEALHNHY TQKSLSLSPG
 KHHHHHH

Formulation The IL21R solution (0.25mg/1ml) contains PBS (pH7.4) and 10% glycerol.

Introduction

IL-21 is produced by CD4+ T cells in response to antigenic stimulation. Its action enhances antigen-specific responses of immune cells. The biological effects of IL-21 include induction of differentiation of T-cells-stimulated B-cells into plasma cells and memory B-cells, stimulation (in conjunction) with IL-4 of IgG production, and induction of apoptotic effects in naive B-cells and stimulated B-cells in the absence of T-cell signaling. Additionally, IL-21 promotes the anti-tumor activity of CD8+ T-cells and NK cells. IL-21 exerts its effect through binding to a specific type I cytokine receptor, IL-21R, which also contains the gamma chain (γ_c) found in other cytokine receptors including IL-

Caution: Product has not been fully validated for medical applications. For research use only.

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2, IL-4, IL-7, IL-9 and IL-15. The 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.

Biological Activity

Measured by its ability to inhibit IFN-g secretion using NK-92 human natural killer cells. The ED50 range \leq 4 ug/ml with mouse IL-2.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

IL21R Mouse Recombinant produced in HEK293 Cells is a single, glycosylated polypeptide chain containing 457 amino acids (20-237 a.a) and having a molecular mass of 52 kDa. IL21R is expressed with a 239 amino acid hlgG-His-Tag at C-Terminus and purified by proprietary chromatographic techniques.

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