9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

IL21R Mouse

Interleukin-21 Receptor Mouse Recombinant
CYK0415

Product Overview

Name	IL21R Mouse
Description	
Interleukin-21 Receptor Mouse Recombinant	
Accession (Primary)	Q9JHX3
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.	
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 conjuction) with IL-4 of IgG production, and induction of apoptotic effects in na?ve 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 (?c) found in other cytokine receptors including IL-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.	
Source	
HEK293 Cells.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
The IL21R solution (0.25mg/1ml) contains PBS (pH7.4) and 10% glycerol.	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	

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CLDLTCYTDY LWTITCVLET RSPNPSILSL TWQDEYEELQ DQETFCSLHR SGHNTTHIWY TCHMRLSQFL SDEVFIVNVT DQSGNNSQEC GSFVLAESIK PAPPLNVTVA FSGRYDISWD SAYDEPSNYV LRGKLQYELQ YRNLRDPYAV RPVTKLISVD SRNVSLLPEE FHKDSSYQLQ VRAAPQPGTS FRGTWSEWSD PVIFQTQAGE PEAGWDPH LE PKSCDKTHTC PPCPAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTTPP VLDSDGSFFL YSKLTVDKSR WQQGNVFSCS VMHEALHNHY TQKSLSLSPG KHHHHHH

Biological Activity

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

Precautions

IL21R Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9JHX3)