

Human IL17BR / IL17RB / IL-17 Receptor B Protein (His Tag)

Catalog Number: 13091-H08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

CRL4; EVI27; IL17BR; IL17RH1

Protein Construction:

A DNA sequence encoding the human IL17BR (NP_061195.2) (Met1-Gly289) was expressed with a C-terminal polyhistidine tag.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: ≥ 90 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.

Bio Activity:

Measured by its binding ability in a functional ELISA. Immobilized human IL17BR-His (cat: 13091-H08H) at 10 µg/ml (100 µl/well) can bind human Fc-IL25 (Cat:10096-H01H), The EC₅₀ of human Fc-IL25 (Cat:10096-H01H) is 0.1-0.3 µg/ml.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Arg 18

Molecular Mass:

The recombinant human IL17BR comprises 284 amino acids and has a predicted molecular mass of 31.5 kDa. The apparent molecular mass of the protein is approximately 41-45 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

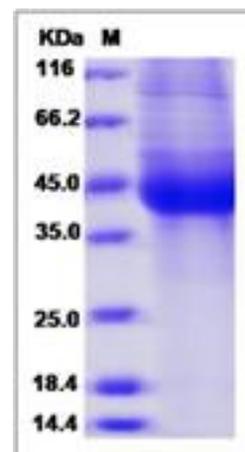
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

IL17RB is the receptor for IL17E, the only member of IL17 family promoting Th2 reactions. IL17RB is induced on human macrophages by IL4 and enhanced by TGFbeta. Overexpression of IL17RB is associated with poor prognosis and short survival of the breast cancer patients. IL17RB/IL17B signaling triggers a substantial increase in the cell growth, proliferation and migration through the activation of NF-kappaB as well as the up-regulation of the Bcl-2. IL17RB may be the only gene expressed in CD4+ T cells whose transcript measurement is correlated with the variation in IgE level in asthmatics.

References

1. Rickel EA, et al.. (2008) Identification of functional roles for both IL-17RB and IL-17RA in mediating IL-25-induced activities. J Immunol. 181(6): 4299-310.
2. Stock P, et al.. (2009) Induction of airway hyperreactivity by IL-25 is dependent on a subset of invariant NKT cells expressing IL-17RB. J Immunol. 182(8): 5116-22.
3. Wang H, et al.. (2010) Allergen challenge of peripheral blood mononuclear cells from patients with seasonal allergic rhinitis increases IL-17RB, which regulates basophil apoptosis and degranulation. Clin Exp Allergy. 40(8): 1194-202.

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