

Rat IL17RA / IL17R Protein (His Tag)

Catalog Number: 80190-R08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

IL17RA

Protein Construction:

A DNA sequence encoding the rat IL17RA (NP_001101353.2) (Met1-Pro320) was expressed, fused with a polyhistidine tag at the C-terminus.

Source: Rat

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio Activity:

1. Measured by its binding ability in a functional ELISA. Immobilized rat IL17RA-His at 10 µg/ml (100 µl/well) can bind biotinylated human IL17A (Cat:12047-HNAE), The EC₅₀ of biotinylated human IL17A (Cat:12047-HNAE) is 5-11.8 ng/ml. 2. Measured by its binding ability in a functional ELISA. Immobilized mouse IL17a (Cat:51065-MNAE) at 10 µg/ml (100 µl/well) can bind rat IL17RA-His, The EC₅₀ of rat IL17RA-His is 0.44-1.02 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: Ser 32

Molecular Mass:

The recombinant rat IL17RA comprises 300 amino acids and predicts a molecular mass of 34.1 kDa. The apparent molecular mass of the recombinant protein is approximately 52-58 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:

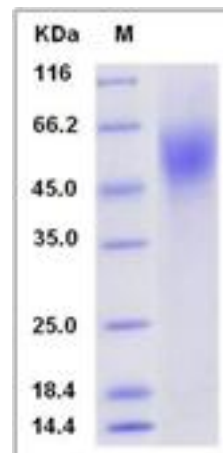
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Interleukin-17 receptor (IL-17R), also known as Interleukin-17 receptor A (IL-17RA) and CD217 antigen (CD217), is a cytokine receptor which binds interleukin 17. IL-17R/IL-17RA (CD217) is a proinflammatory cytokine secreted by activated T-lymphocytes. It is a potent inducer of the maturation of CD34-positive hematopoietic precursors into neutrophils. IL-17R/IL-17RA (CD217) is a ubiquitous type I membrane glycoprotein that binds with low affinity to interleukin 17A. Interleukin 17A and its receptor IL-17RA play a pathogenic role in many inflammatory and autoimmune diseases such as rheumatoid arthritis. Like other cytokine receptors, this receptor likely has a multimeric structure. Defects in IL-17R/IL-17RA (CD217) are the cause of familial candidiasis type 5 (CANDF5). CANDF5 is a rare disorder with altered immune responses and impaired clearance of fungal infections, selective against *Candida*. It is characterized by persistent and/or recurrent infections of the skin, nails and mucous membranes caused by organisms of the genus *Candida*, mainly *Candida albicans*.

References

1. Gaffen SL. (2009) Structure and signalling in the IL-17 receptor family. *Nat Rev Immunol.* 9 (8): 556-67.
2. Johansen C, et al. (2009) Characterization of the interleukin-17 isoforms and receptors in lesional psoriatic skin. *Br J Dermatol.* 160 (2): 319-24.
3. Yao Z, et al. (1997) Molecular characterization of the human interleukin (IL)-17 receptor. *Cytokine* 9 (11): 794-800.

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