

## IL-17RE Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	interleukin 17 receptor E;IL-17 receptor E;IL-17RE;IL17RE;IL-17 RE
Protein Construction:	Ala115-His414
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q8BH06
Molecular Weight:	38-42 KDa (reducing condition)
AA Sequence:	Ala115-His414

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Interleukin 17 Receptor E (IL 17 RE) is an approximately 70 kDa (predicted) transmembrane protein in the family of IL 17 receptors. IL 17 RE is expressed on keratinocytes, mucosal epithelial cells, Th17 cells, and gamma /δ T cells. It associates with the widely expressed IL 17 RA to form a heterodimeric receptor for IL-17C. IL-17C binds to IL 17 RE with high affinity and to IL 17 RA with low affinity. IL 17C expression is induced by inflammatory stimulation in colon and airway epithelial cells, keratinocytes, CD4+ T cells, macrophages, and dendritic cells. It is up regulated

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in various chronic inflammatory diseases including psoriasis, cystic fibrosis, and chronic obstructive pulmonary disease (COPD). IL 17 RE is reciprocally down regulated in psoriatic lesions. The interaction of IL 17C with IL 17 RE promotes mucosal immunity through the induction of anti bacterial peptides and pro inflammatory cytokines and chemokines. IL 17C action supports the integrity of the colon epithelium following infection induced damage but also contributes to psoriatic skin thickening and the progression of arthritis. IL 17C is additionally up regulated in Th17 cell dependent autoimmunity. In this setting, it exacerbates disease severity by inducing Th17 cell production of IL 17A, IL 17F, IL 22, CCR6, and CCL20. The up regulation of IL 17 RE in hepatocellular carcinoma is associated with poor prognosis.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481