Data Sheet (Cat.No.TMPJ-00077)

TargetMol

IL -17C Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	Cytokine CX2;CX2;IL17C;interleukin 17C;IL-17C;interleukin-17C;IL-17CMGC126884
Protein Construction:	His19-Val197
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9P0M4
Molecular Weight:	22.6 kDa (Predicted); 25-28 kDa (Reducing condition)
AA Sequence:	His19-Val197

QC Testing

Biological Activity:	Immobilized Biotinylated Human IL-17C, His Tag at 1 μg/ml (100 μl/well) on the streptavidin precoated plate (5 μg/ml). Dose response curve for Human IL-17RE, hFc Tag with the EC50 of 4.5 ng/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μm filtered solution in 50mM MES, 150mM NaCl (pH 6.0). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in 50mM MES (pH 6.0). 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 17C (IL 17C) is a 15 20 kDa glycosylated cytokine that plays an important role in mucosal immunity and chronic inflammation. IL 17C binds to IL 17 RE with high affinity and to IL 17 RA with low affinity. These two receptor chains can associate into a heterodimeric receptor for IL 17C. 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 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.

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