



Interleukin-17F, human recombinant, His Tag (rhIL17F)

Catalog No: 99925
Lot No: XXXXX
Source: *E. coli*
Synonyms: Cytokine ML-1, IL-17F, Interleukin-17F precursor, IL17F, ML1, ML-1

Background

IL17F, having an accession number of Q96PD4, is a cytokine that shares sequence similarity with IL17. IL17F is expressed by activated T cells, and has been shown to stimulate the production of several other cytokines, including IL6, IL8, and CSF2/GM-CSF. IL17F inhibits the angiogenesis of endothelial cells and induces endothelial cells to produce IL2, TGFβ1/TGFβ, and monocyte chemoattractant protein-1. IL17F induces stromal cells to produce pro-inflammatory and hematopoietic cytokines. Intestinal IL17F gene expression is increased in active CD. IL-17A & IL17F alleles influence the susceptibility to and pathophysiological features of ulcerative colitis independently. IL17F and MIF gene polymorphisms are significantly associated with the development of functional dyspepsia. The initiation of IL17F/IL17R signaling pathway requires the receptor ubiquitination by TRAF6. IL17F induces expression of IFN-gamma-inducible protein 10 (IP-10) by activating Raf1-mitogen-activated protein kinase 1/2-extracellular-regulated kinase 1/2-p90 ribosomal S6 kinase-cyclic AMP response element-binding protein signaling pathway.

Description

IL17F His Human Recombinant, produced in *E. coli*, is a single, non-glycosylated polypeptide chain containing 158 amino acids (31-163). It has a molecular mass of 17.6 kDa. IL17F His is fused to a 25 amino acid His-tag at N-terminus and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered, clear solution.

Formulation

The IL17F His solution (1 mg/ml) contains 20 mM Tris-HCl buffer (pH 8.0), 0.4 M urea 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 85% as determined by SDS-PAGE.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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