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## Product Data Sheet

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Product Name: IL17D Human  
 Cat. No.: GP20586  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Interleukin 17D; Interleukin 27; IL-17D; IL-27; IL27; Interleukin-17D; Interleukin-27; IL17D.		
Amino Acid Sequence	APRAGRPPAR PRGCADRPEE LLEQLYGRLA AGVLSAFHHT LQLGPREQAR NASCPAGGRP ADRRFRPPTN LRSVSPWAYR ISYDPARYPR YLPEAYCLCR GCLTGLFGEE DVRFRSAPVY MPTVVLRRTP ACAGGRSVYT EAYVTIPVGC TCVPEPEKDA DSINSSIDKQ GAKLLLGPND APAGP.		
Solubility	It is recommended to reconstitute the lyophilized IL-17D in sterile 18M-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered solution in Acetonitrile and TFA.		

### Introduction

IL17D modulates immune responses indirectly by stimulating the production of myeloid growth factors and chemokines, as well as suppressing the proliferation of myeloid progenitors. IL17D is expressed in the skeletal muscle, heart, adipose tissue, lung, pancreas, and nervous system. Among IL-17 family members, IL17D is most closely related to IL17B, sharing 27% aa sequence identity. The treatment of endothelial cells with IL17D cytokine stimulates the production of other cytokines including IL6, IL8 and CSF2/ GM-CSF. The increased expression of IL8 induced by IL17D cytokine is NF-kappa B-dependent.

### Biological Activity

Immobilized rHuIL-17D binds to rHuIL-17BR with EC<sub>50</sub> less than 2µg/ml.

### Stability

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Lyophilized IL17D although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution IL-17D should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Interleukin-17D Human Recombinant (18-202) produced in E.Coli is a non-glycosylated disulfide-linked homodimer containing 2 polypeptide chains of 185 amino acids each and having a molecular mass of 40kDa. The IL-17D is purified by proprietary chromatographic techniques.

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