

## GFH152 Recombinant Human IL-17F

### Description

Interleukin-17F (IL-17F), a member of the IL-17 cytokine family, is secreted by activated CD4+ T cells and monocytes. IL-17F binds the IL-17 receptor related molecule, IL17RC, to promote the production of the interleukin-6 (IL-6), interleukin-8 (IL-8), and Granulocyte Macrophage Colony-Stimulating Factor (GM-CSF) cytokines. IL-17F also functions to regulate matrix turnover rates, inhibit endothelial cell angiogenesis, and induce the endothelial cell expression of interleukin-2 (IL-2), Monocyte Chemoattractant Protein 1 (MCP-1), and Transforming Growth Factor  $\beta$  1 (TGF- $\beta$ 1).

<b>Length</b>	134 / 268 aa
<b>Molecular Weight</b>	15.0 / 30.0 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	Q96PD4
<b>Purity</b>	$\geq$ 95% determined by reducing and non-reducing SDS-PAGE

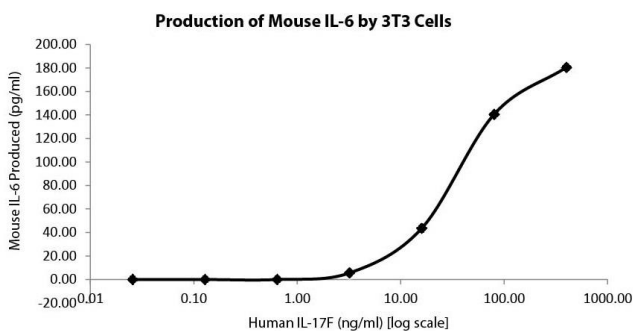
### Specifications

<b>Alternative Names</b>	Interleukin-17F, interleukin 17F, IL17F, IL 17F
<b>Biological Activity</b>	Human IL-17F is fully biologically active when compared to standard. The activity is determined by the ability to produce mouse IL-6 by 3T3 cells and it is typically less than 100 ng/ml. This corresponds to an expected specific activity of $1 \times 10^4$ units/mg.
<b>Endotoxin Level</b>	$\leq$ 1.00 EU/ $\mu$ g as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
<b>AA Sequence</b>	MRKIPKVGHT FFQKPESCPP VPGGSMKLDI GIINENQRVS MSRNIESRST SPWNYTVTWD PNRYPSEVVQ AQCRNLGCIN AQQKEDISMN SVPIQQETLV VRRKHQGCSV SFQLEKVLVT VGCTCVTPVI HHVQ

### Preparation and Storage

<b>Reconstitution</b>	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
<b>Stability and Storage</b>	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

### Data



Induced production of Mouse IL-6 by 3T3 cells when cultured with Human IL-17F.