

Recombinant Human IL1F6

Cat. No. IL1F6-317H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL-1F6 produced in E.coli is a single, non-glycosylated, polypeptide chain containing 158 amino acids and having a molecular mass of 17.7 kDa.
Species	Human
Source	E.coli
Description	Human interleukin family 1, member 6 (hIL-1F6 / FIL1-epsilon) is a member of the interleukin 1 cytokine family. IL-1F6 is expressed in immune system and fetal brain, but not in other tissues tested or in multiple hematopoietic cell lines. IL-1F6 is the only IL-1 family member found to be expressed on T-cells. IL-1F6 is reported to function via receptor complex of IL-1Rrp2 and IL-1RAcP. Recombinant IL-1F6, along with IL-1F8 and IL-1F9, has been shown to act as an agonist by activating the pathway involving NFkB and MAPK in an IL-1Rrp2 dependent manner.
Biological Activity	As measured by its binding ability in a functional ELISA, immobilized rHuIL-1F6 at 1 µg/ml (100 µl/well) can bind rHuIL-1 Rrp2/Fc Chimera with a linear range of 0.15~5 µg/ml.
Purity	Greater than 95% as determined by (a) Analysis by RP-HPLC; (b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.
Amino-Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found

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	to be Met-Glu-Lys-Ala-Leu.
Endotoxin	Less than 0.1ng/g (1 IEU/g) determined by LAL test.
Form	The protein was lyophilized after extensive dialysis against 20mM Phosphate buffer, pH7.4.
Reconstitution	It is recommended to quick spin followed by reconstitution of rHuIL-1F6 in PBS to a concentration no less than 100g/ml, which can then be further diluted to other aqueous solutions.
Storage	Lyophilized rHuIL-1F5 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rHuIL-1F6 should be stored at 4°C between 2-7 days and for future use below -18°C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.

GENE INFORMATION

Gene Name	IL1F6 interleukin 1 family, member 6 (epsilon) [Homo sapiens]
Official Symbol	IL1F6
Synonyms	IL1F6; interleukin 1 family, member 6 (epsilon); FIL1; FIL1E; IL-1F6; MGC129552; MGC129553; IL1(EPSIL- ON); FIL1(EPSILON); interleukin-1 family member 6 ; FIL1 epsilon ; IL-1 epsilon ; OTTHUMP00000203688 ; interleukin-1 epsilon ; IL-1F6 (FIL-1-epsilon) ; interleukin 1, epsilon ; Interleukin-1 epsilon
Gene ID	27179
mRNA Refseq	NM_014440

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Protein Refseq	NP_055255
MIM	605509
UniProt ID	Q9UHA7
Chromosome Location	2q12-q14.1
Function	cytokine activity; interleukin-1 receptor binding

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