

Active Recombinant Human Interleukin 1 Family, Member 6 (Epsilon)

Cat. No. IL1F6-398H Lot. No. (See product label)

SPECIFICATION

Product Overview	IL1F6 Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain containing 158 amino acids and having a molecular mass of 17.7kDa. The IL1F6 is purified by proprietary chromatographic techniques.
Species	Human
Source	Human
Description	Human interleukin family 1, member 6 (hIL-1F6 / FIL1-epsilon) belongs to the interleukin 1 cytokine family. IL1F6 is expressed in the immune system and the fetal brain, but not in other tissues tested or in multiple hematopoietic cell lines. IL1F6 is the only IL-1 family member found to be expressed on T-cells. IL1F6 functions via receptor complex of IL-1Rrp2 and IL-1RAcP. The recombinant IL1F6, along with IL1F8 and IL1F9, acts as an agonist by activating the pathway involving NF κ B and MAPK in an IL-1Rrp2 dependent manner.
Form	IL1F6 was lyophilized after extensive dialysis against 20mM Phosphate buffer, pH7.4.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Bio-activity	As measured by its binding ability in a functional ELISA, immobilized IL1F6 at 1 μ g/ml (100 μ well) can bind rHuIL-1 Rrp2/Fc Chimera with a linear range of 0.15- 5 μ g/ml.

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Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	It is recommended to quick spin followed by reconstitution of IL1F6 in PBS to a concentration no less than 100 g/ml, which can then be further diluted to other aqueous solutions.
Amino acid sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Glu-Lys-Ala-Leu.
Storage	Lyophilized IL1F6 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL1F6 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent 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(EPSILON); FIL1(EPSILON); IL-1F6 (FIL-1-epsilon); interleukin 1, epsilon; Interleukin-1 family member 6; Interleukin-1 epsilon; IL-1 epsilon; FIL1 epsilon
Gene ID	27179
mRNA Refseq	NM_014440
Protein Refseq	NP_055255
MIM	605509

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UniProt ID	Q9UHA7
Chromosome Location	2q12-q14.1
Function	cytokine activity; interleukin-1 receptor binding

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