

Recombinant Human IL1F10

Cat. No. IL1F10-319H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL-1F10 produced in E.coli is a single, non-glycosylated, polypeptide chain containing 152 amino acids and having a molecular mass of 17 kDa.
Species	Human
Source	E.coli
Description	Human interleukin family 1, member 10 (hIL-1F10 / FIL1-theta) is a member of the interleukin 1 cytokine family. IL-1F10 was expressed in fetal skin, spleen and tonsil, mostly in the basal epithelia of skin and in proliferating B-cells of the tonsil. IL-1F10 binds soluble IL-1 receptor type 1 and may be implicated in regulating adapted and innate immune responses. Two alternatively spliced transcript variants encoding the same protein have been reported.
Biological Activity	As measured by its binding ability in a functional ELISA, immobilized rHuIL-1F10 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 to be Met-Cys-Ser-Leu-Pro.

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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-1F10 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-1F10 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	IL1F10 interleukin 1 family, member 10 (theta) [Homo sapiens]
Official Symbol	IL1F10
Synonyms	IL1F10; interleukin 1 family, member 10 (theta); FKSG75; IL-1HY2; IL1-theta; MGC119831; MGC1198- 32; MGC119833; FIL1-theta; interleukin-1 family member 10; FIL1 theta; IL-1 theta; interleukin-1 HY2; OTTHUMP00000162018; OTTHUMP00000203- 696; interleukin-1 theta; IL-1F10 (canonical form IL-1F10a); interleukin-1 receptor antagonist FKSG75; interleukin-1 receptor antagonist-like FIL1 theta; Interleukin-1 theta; Interleukin-1 HY2; FIL1T
Gene ID	84639
mRNA Refseq	NM_032556

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Protein Refseq	NP_115945
UniProt ID	Q8WWZ1
Chromosome Location	2q13
Function	cytokine activity; interleukin-1 receptor antagonist activity

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