

Recombinant Human Interleukin 1 Family, Member 10 (rh IL1F10)

Synonyms: Interleukin-1 HY2, IL-1HY2, Interleukin-1 theta, IL-1 theta

Introduction: Human interleukin family 1, member 10 (IL1F10) belongs to the interleukin 1 cytokine family. IL1F10 is expressed in the fetal skin, spleen and tonsil, generally in the basal epithelia of skin and in proliferating B-cells of the tonsil. IL1F10 binds soluble IL1 receptor type 1 and may be implicated in the regulation of adapted and innate immune responses.

Description: Recombinant human IL1F10 produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 152 amino acids and having a molecular mass of 17 kDa. The IL1F10 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized after extensive dialysis against 20mM Phosphate buffer, pH7.4. The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to quick spin followed by reconstitution of IL1F10 in PBS to a concentration not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh IL1F10 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C . Upon reconstitution rh IL1F10 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 prevent freeze-thaw cycles.

Purity: Greater than 95.0% as determined by
a) Analysis by RP-HPLC
b) Analysis by SDS-PAGE / silver stain.

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.

Biological Activity: measured by its binding ability in a functional ELISA, immobilized IL1F10 at 1 µg/ml (100 µl/well) can bind rh IL-1 Rrp2/Fc Chimera with a linear range of 0.15 - 5 µg/ml.

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<i>small</i>	2 µg	Cat.N°	11344522
<i>medium</i>	10 µg	Cat.N°	11344523

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