



Interleukin-1 Family Member 10, human recombinant (rHuIL-1F10)

Catalog No: 97485
Lot No: XXXXX
Source: *E. coli*
Synonyms: Interleukin-1 family member 10, IL-1F10, FIL1 theta, Interleukin-1 HY2, IL-1HY2, Interleukin-1 theta, IL-1 theta, IL1F10, FIL1T, IL1HY2, FKSG75, MGC119831, MGC119832, MGC119833, FIL1-theta

Background

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

Interleukin-1F10 human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 152 amino acids and having a molecular mass of 17 kDa. IL1F10 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

IL1F10 was lyophilized after extensive dialysis against 20 mM phosphate buffer, pH 7.4.

Solubility

It is recommended to quick spin followed by reconstitution of IL1F10 in PBS to a concentration no less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized IL1F10, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL1F10 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 95.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

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.

Activity

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

Usage

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