



Interleukin 1 Family, Member 10, human recombinant, His Tag (rhuFIL1T)

Catalog No: 99946
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

IL-36 γ belongs to the IL-1 family which includes IL-1b, IL-1a, IL-1ra, IL-18, IL-36 Ra (IL-1F5), IL-36a (IL-1F6), IL-36b (IL-1F8), IL-37 (IL-1F7) and IL-1F10. The IL-1 family members display a 12 b-strand, b-trefoil configuration, and are thought to have ascended from a mutual ancestral gene. IL-36 γ is an 18-22 kDa (169 aa) intracellularly secreted protein which holds no signal sequence, no prosegment and no potential N-linked glycosylation sites. Human IL-36 γ 's amino acid sequence is 58-69% homologous with mouse, rat, bovine and equine IL-36 γ , and shares 23-57% of its amino acid sequence with other family members. The IL-36 γ receptor is a mixture of IL-1 Rrp2, mostly located in epithelia and keratinocytes, and the extensively expressed IL-1 RAcP. All IL-36 (α , β and γ) activate NF- κ B and MAPK pathways in an IL-1 Rrp2 dependent reaction. Additionally, IL-36 γ induces production of inflammatory cytokines and chemokines like CXCL8/IL-8.

Description

IL1F10 Human Recombinant, produced in *E. coli*, is a single, non-glycosylated polypeptide chain containing 172 amino acids (1-152 aa). It has a molecular mass of 19.1 kDa. IL1F10 is fused to a 20 amino acid His-tag at N-terminus and is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered, colorless solution.

Formulation

The IL1F10 solution contains 20 mM Tris-HCl buffer (pH 8.0), 0.15 M NaCl, 1 mM DTT and 20% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 85% as determined by SDS-PAGE.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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