



Interleukin-36 beta, 153 amino acids, human recombinant (rHuIL-36beta)

Catalog No: 97600
Lot No: XXXXX
Source: *E. coli*
Synonyms: Interleukin 36 beta, interleukin 1 family member 8 (eta), Interleukin-1 homolog 2, IL1F8 (Canonical product IL-1F8a), IL-1F8 (FIL1-eta), Interleukin-1 Superfamily e, IL1H2, MGC126880, MGC126882

Background

Human IL-36b belongs to the IL-1 family that includes IL-1b, IL-1a, IL-1ra, IL-18, IL-36ra (IL1F5), IL-36b (IL1F8), IL-36g (IL1F9), IL-37 (IL1F7) and IL-38 (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 beta is known to be actively secreted. Cells expressing IL-36 beta include resting and activated monocytes and B cells. The receptor for IL-36 beta is a blend of IL-1 Rrp2 and IL-1 RAcP. Recombinant IL-36 beta stimulates processes involving NF-kB and MAPK in an IL-1 Rrp2-dependent manner.

Description

Interleukin-36B (153 amino acids) human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 153 amino acids (5-157) and having a molecular mass of 17.2 kDa. IL36B 153 aa human is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in 1xPBS, pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized IL36B 153 a.a. in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized IL36B (153 aa), although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL36B 153 a.a. Human 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 97.0% as determined by SDS-PAGE and HPLC analysis.

Amino Acid Sequence

REAAPKSYAI RDSRQMVWVL SGNLIAAPL SRSIKPVTLLH LIACRDTEFS DKEKGNMVYL GIKGKDLCLF CAEIQGKPTL
QLKEKNIMDL YVEKKAQKPF LFFHNKEGST SVFQSVSYPG WFIATSTTSG QPIFLTKERG ITNNTNFYLD SVE

Activity

Fully biologically active when compared to standard. The ED50 as measured by its ability to induce IL-8 secretion in human preadipocytes is less than 10 ng/ml, corresponding to a specific activity of 10 IU/mg.

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