
Product Data Sheet

Product Name: IL36B 153 a.a. Human
 Cat. No.: GP20664
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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.		
Amino Acid Sequence	REAAPKSYAI RDSRQMVWVL SGNSLIAAPL SRSIKPVTLLH LIACRDTEFS DKEKGNMVYL GIKGKDLCLF CAEIQ GKPTL QLKEKNIMDL YVEKKAQKPF LFFHNKEGST SVFQSVSYPG WFIATSTTSG QPIFLTKERG ITNNTNFYLD SVE		
Solubility	It is recommended to reconstitute the lyophilized IL36B 153 a.a. Human in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.4.		

Introduction

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.

Biological 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 10ng/ml, corresponding to a specific activity of 10IU/mg.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Lyophilized IL36B 153 a.a. Human 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.

Background

IL36B 153 a.a. Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 153 amino acids (5-157a.a.) and having a molecular mass of 17.2kDa. The IL36B 153 a.a. Human is purified by proprietary chromatographic techniques.

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