
Product Data Sheet

Product Name: IL36A Human
 Cat. No.: GP20658
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Interleukin 36 alpha; FIL1E; IL1F6; FIL1; IL1(EPSILON); interleukin 1 family member 6 (epsilon); MGC129552; MGC129553.		
Amino Acid Sequence	KIDTPQQGSI QDINHRVWVL QDQTLIAVPR KDRMSPVTIA LISCRHVETL EKDRGNPIYL GLNGLNLCLM CAKVGDQPTL QLKEKDIMDL YNQPEPVKSF LFYHSQSGRN STFESVAFPG WFIASSEGG CPLILTQELG KANTTDFGLT MLF		
Solubility	It is recommended to reconstitute the lyophilized IL36A in sterile 18MΩ-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 20mM Tris-HCl, 150mM NaCl, 0.1% Tween 20, pH 8.0.		

Introduction

Human IL-36a belongs to the IL-1 family which 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-36a is an 18-22kDa, 158aa intracellular and secreted protein which holds no signal sequence, no prosegment and no potential from N-linked glycosylation sites. IL-36a is released as a reaction to LPS and the cell ATP-induced activation of the P2X7 receptor. Human IL-36a (aa 6-158) shares 57-68% aa sequence homology with mouse, rabbit, equine and bovine IL-36a and 27-57% aa sequence homology with other new IL-1 family members. IL-36a is mostly found in skin and lymphoid tissues, but also in fetal brain, trachea, stomach and intestine.

Biological Activity

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

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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 100,000 IU/mg.

Stability

Lyophilized IL36A Human although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IL36A should be stored at 4°C between 2-7 days and for future use below -18°C .Please prevent freeze-thaw cycles.

Background

IL36A Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 153 amino acids (aa 6-158) and having a molecular mass of 17.0kDa.The IL36A is purified by proprietary chromatographic techniques.

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