
Product Data Sheet

Product Name: IL36A 158 a.a. Human

Cat. No.: GP20659

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	MEKALKIDTP QQGSIQDINH RVWVLQDQTL IAVPRKDRMS PVTIALISCR HVETLEKDRG NPIYLGLNGL NLCLMCAKVG DQPTLQLKEK DIMDLYNQPE PVKSFLFYHS QSGRNSTFES VAFPGWFIIV SSEGGCPLIL TQELGKANTT DFGLTMLF		
Solubility	It is recommended to reconstitute the lyophilized IL36A 158 a.a. Human in sterile 18M-cm H2O 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 2xPBS, pH 7.4.		

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

Fully biologically active when compared to standard. The specific activity determined by

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its ability in a functional ELISA. Immobilized rHuIL-36 β at 1 μ g/mL can bind recombinant human IL-1 Rrp2 Fc Chimera with a range of 0.15-5 μ g/ml corresponding to a specific activity of 200,000-6,666,667IU/mg.

Stability

Lyophilized IL36A 158 a.a. Human although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IL36A 158 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

IL36A 158 a.a. Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 158 amino acids and having a molecular mass of 17.7kDa.The IL36A 158 a.a. Human is purified by proprietary chromatographic techniques.

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