9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
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IL36A 158 a.a. Human

Interleukin-36 Alpha 158 a.a. Human Recombinant
CYK0434

Product Overview

Name	IL36A 158 a.a. Human
Description	
Interleukin-36 Alpha 158 a.a. Human Recombinant	
Accession (Primary)	Q9UHA7
Synonyms	
Interleukin 36 alpha, FIL1E, IL1F6, FIL1, IL1(EPSILON), interleukin 1 family member 6 (epsilon), MGC129552, MGC129553.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2?m filtered concentrated solution in 2xPBS, pH 7.4.	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE and HPLC analyses.	

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Amino acid sequence

MEKALKIDTP QQGSIQDINH RVWVLQDQTL IAVPRKDRMS PVTIALISCR HVETLEKDRG NPIYLGLNGL NLCLMCAKVG DQPTLQLKEK DIMDLYNQPE PVKSFLFYHS QSGRNSTFES VAFPGWFIAV SSEGGCPLIL TQELGKANTT DFGLTMLF

Biological Activity

Fully biologically active when compared to standard. The specific activity determined by its ability in a functional ELISA. Immobilized rHuIL-36? at 1 ?g/mL can bind recombinant human IL-1 Rrp2 Fc Chimera with a range of 0.15-5?g/ml corresponding to a specific activity of 200,000-6,666,667IU/mg.

Solubility

It is recommended to reconstitute the lyophilized IL36A 158 a.a. Human in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

IL36A 158 a.a. Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9UHA7)