



Recombinant Human IL-36 alpha

20171219BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-160
Size:	10 µg
Lot. No.:	According to product label

Sequence

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MKIDTPQQGS IQDINHRVWV IQDQTLIAVP RKDRMSPVTI  
ALISCRHVET LEKDRGNPIY LGLNGLNLCL MCAKVGDPPT  
LQLKEKDIMD LYNQPEPVKS FLFYHSQSGR NSTFESVAFP  
GWFIAVSSEG GCPLILTQEL GKANTTDFGL TMLF
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Database References

Protein RefSeq:	NP_055255.1
Uniprot ID:	Q9UHA7
mRNA RefSeq:	NM_014440.2

Scientific Background

Gene-ID (NCBI):	27179
Synonyms:	Interleukin-36 α , IL36A, Interleukin-1 family member 6 (IL-1F6), FIL1 ϵ (FIL1E), Interleukin-1 ϵ (IL1E)

The IL-1 family is comprised of 11 structurally related ligands, including recently re-named IL-36 alpha (IL-1F6), beta (IL-1F8), and gamma (IL-1F9). IL-36 alpha is highly expressed in psoriatic plaques, as are IL-36 beta and IL-36 gamma, and is the only IL-1 family member found to be expressed by T-cells, as well as monocytes and B-cells. Primarily found in skin and lymphoid tissues, IL-36 alpha is also found to a lesser extent in tissues of the fetal brain, trachea, stomach, and intestine. IL-36 alpha signals through a combination of the IL-1Rrp2 (IL-1R6) receptor, which is primarily expressed on certain dendritic cells, and the widely expressed IL-RAcP (IL-1 receptor accessory protein). IL-36 alpha also functions as an agonist of NF-kappaB and MAPK pathways, and induces the production of proinflammatory cytokines and chemokines, including IL-6, IL-8, BD-2, and BD-3. Recombinant human IL-36 alpha is a 17.2 kDa protein containing 154 amino acid residues.

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analysis
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	154
MW:	17.2 kDa

Stability: The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

Reconstitution: Centrifuge the vial prior to opening. Reconstitute in **1x PBS, pH 7.2 to a concentration of 0.2 mg/ml**. *Do not vortex*. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Biological Activity: Measured by its ability to inhibit secretion of IL-8 by A431 cells in the presence of IL-36 gamma.