

## Product datasheet for **TP727625**

### IL36 alpha (IL36A) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human IL-36a
Species:	Human
Expression cDNA Clone or AA Sequence:	Lys6-Phe158
Buffer:	Lyophilized from a 0.2 um filtered solution of 50mM Tris-HCl, 150mM NaCl, pH8.0, 1 mM EDTA, 0.02% Tween 20.
Note:	Recombinant Human Interleukin-36 alpha is produced by our E.coli expression system and the target gene encoding Lys6-Phe158 is expressed.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	27179
UniProt ID:	<a href="#">Q9UHA7</a>
Synonyms:	Interleukin-36 Alpha; FIL1 Epsilon; Interleukin-1 Epsilon; IL-1 Epsilon; Interleukin-1 Family Member 6; IL-1F6; IL36A; FIL1E; IL1E; IL1F6
Summary:	Human Interleukin-36 $\alpha$ (IL-36 $\alpha$ ) is a secreted cytokine that belongs to the Interleukin 1 cytokine family. IL-36 $\alpha$ is expressed in the immune system and the fetal brain, but not in other tissues or multiple hematopoietic cell lines. IL-36 $\alpha$ is the only IL-1 family member found to be expressed on T-cells. IL-36 $\alpha$ and IL-1F8 are involved in the regulation of adipose tissue gene expression. Importantly, IL-36 $\alpha$ inhibits PPAR $\gamma$ expression, which may lead to a reduction in adipocyte differentiation suggesting metabolic effects of this cytokine. IL-36 $\alpha$ , along with IL-1F8 and IL-1F9, has been shown to act as an agonist by activating the pathway involving NF $\kappa$ B and MAPK in an IL-1Rrp2 dependent manner. This suggest that IL-36 $\alpha$ may signal in a similar fashion to IL-1 and IL-18 in having a binding receptor which upon ligation, recruits a second receptor as a signaling component, forming an active heterodimeric receptor complex.
Protein Families:	Druggable Genome, Secreted Protein



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