

IL-36 α , Human, Recombinant

Cat. No. : PCK194

General Information

Synonyms	Interleukin-36 Alpha;FIL1 Epsilon;Interleukin-1 Epsilon;IL-1 Epsilon;Interleukin-1 Family Member 6;IL-1F6;IL36A;FIL1E;IL1E;IL1F6
Species	Human
Expression host	E.coli
Sequence	Lys6-Phe158
Accession	Q9UHA7
Mol mass	17.1 kDa
Expiration date	12 months
Bio activity	Measured by its ability to induce IL-8 secretion in A431 human epithelial carcinoma cells. The ED50 for this effect is 1.83 ng/mL.

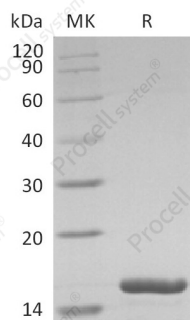
Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 μ m filtered solution of 20 mM PB, 6% Trehalose, 5 mM EDTA, 0.05% Tween 80, pH7.4.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μ g/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

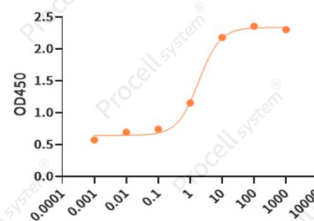
Background

Human Interleukin-36 α (IL-36 α) is a secreted Cytokine that belongs to the Interleukin 1 Cytokine family. IL-36 α is expressed in the immune system and the fetal brain, but not in other tissues or multiple hematopoietic cell lines. IL-36 α is the only IL-1 family member found to be expressed on T-cells. IL-36 α and IL-1F8 are involved in the regulation of adipose tissue gene expression. Importantly, IL-36 α inhibits PPAR γ expression, which may lead to a reduction in adipocyte differentiation suggesting metabolic effects of this Cytokine. IL-36 α , along with IL-1F8 and IL-1F9, has been shown to act as an agonist by activating the pathway involving NF κ B and MAPK in an IL-1Rrp2 dependent manner. This suggest that IL-36 α 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.

SDS-PAGE



Bio activity



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