

# Recombinant Mouse IL-36 alpha protein(His Tag)

Catalog Number:PKSM041480



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

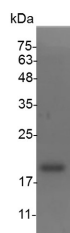
## Description

<b>Synonyms</b>	MDA-7 (Melanoma Differentiation-Associated gene 7 protein);FISP;St16
<b>Species</b>	Mouse
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Met 1-His 160
<b>Accession</b>	Q9JLA2
<b>Calculated Molecular Weight</b>	18.8 kDa
<b>Observed molecular weight</b>	17-25 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 98 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 0.1 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 98 % as determined by reducing SDS-PAGE.

## Background

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.

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