

## Mouse IL-36 $\alpha$ Protein, His tag (Animal-Free)

Cat #: PRP1115

Size: 5  $\mu$ g/20  $\mu$ g/100  $\mu$ g/1 mg

### Product Information

|                                                                                   |                                                                          |            |                                           |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------|-------------------------------------------|
|                                                                                   | <b>Product Name:</b> Mouse IL-36 $\alpha$ Protein, His tag (Animal-Free) |            |                                           |
| <b>REF</b>                                                                        | <b>Catalog Number:</b> PRP1115                                           | <b>LOT</b> | <b>Lot Number:</b> Refer to product label |
|                                                                                   | <b>Purity:</b> > 98 % as determined by SDS-PAGE                          |            |                                           |
|  | <b>Storage:</b> Store at -20°C                                           |            | <b>Preparation method:</b> E.coli         |
|                                                                                   | <b>Shipping:</b> The product is shipped at ambient temperature.          |            |                                           |

**Background:** Interleukin 36 alpha (IL-36 $\alpha$ ) is an IL-1 family member, which binds to the Interleukin-1 receptor and is expressed in the lung, stomach, and placenta. IL-36 $\alpha$  is critical in inflammatory responses and stimulates the production of proinflammatory cytokines, such as IL-12, IL-1 $\beta$ , IL-6, and TNF- $\alpha$ . It also induces the generation of IFN $\gamma$ , IL-4, and IL-17 in CD4+ T cells.

**Sequence:** Amino acid sequence derived from Mouse IL-36 $\alpha$  (Met1-His160) (Q9JLA2) was expressed with 6 $\times$ His tag at the C-terminus.

**Protein length:** The recombinant mouse IL-36 $\alpha$  consists of 160 amino acids and predicts a molecular mass of 18.82 kDa.

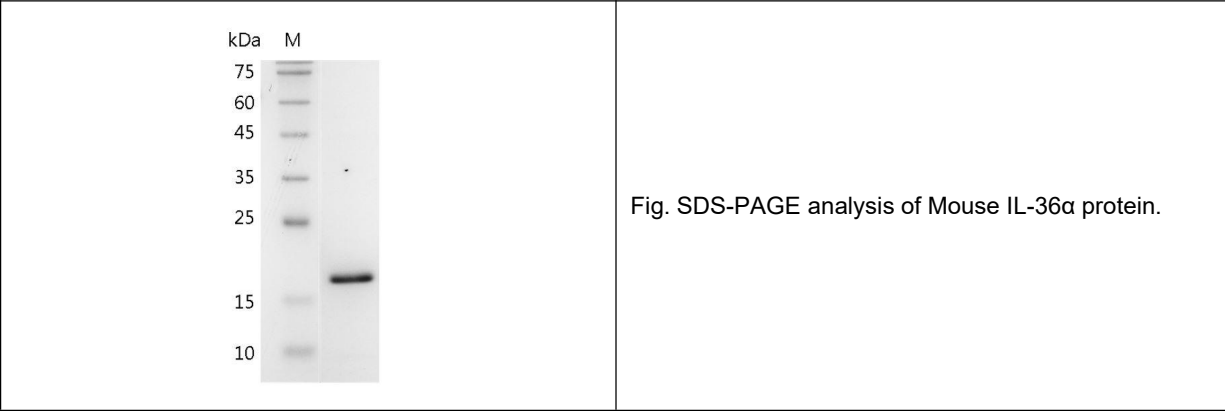
**Biological Activity:** Measured by its ability to induce IL-6 secretion in 3T3 cells. The ED<sub>50</sub> for this effect is <15 ng/mL.

**Endotoxin:** <0.1 EU per 1  $\mu$ g of the protein by the LAL method.

**Formulation:** Lyophilized from PBS, pH 7.4.

**Storage Instructions:** Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA, 10%FBS or 0.1%BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant protein to a concentration of 0.1-1 mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.