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## Product Data Sheet

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Product Name: IL36A Mouse  
 Cat. No.: GP20660  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Interleukin 36 alpha; FIL1E; IL1F6; FIL1; IL1(EPSILON); interleukin 1 family member 6 (epsilon); MGC129552; MGC129553.		
Amino Acid Sequence	MNKEKELRAA SPSLRHVQDL SSRVWILQNN ILTAVPRKEQ TVPVTITLLP CQYLDLTLETN RGDPTYMGVQ RPMSCLFCTK DGEQPVLQLG EGNIMEMYNK KEPVKASLFY HKKSGTTSTF ESAAFPGWFI AVCSKGSCPL ILTQELGEIF ITDFEMIVVH		
Solubility	It is recommended to reconstitute the lyophilized IL36A in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in 16 <sup>L</sup> PBS, pH 7.4.		

### Introduction

Murine IL-36a belongs to the IL-1 family that includes IL-1b, IL-1a, IL-1ra, IL-18, IL-36ra (IL1F5), IL-36b (IL1F8), IL-36g (IL1F9), IL-37 (IL1F7) and IL-38 (IL-1F10). The IL-1 family members display a 12 b-strand, b-trefoil configuration, and are thought to have ascended from a mutual ancestral gene. Murine IL-36a is a 160 amino acid intracellular and secreted protein which holds no signal sequence, no prosegment and no potential N-linked glycosylation sites. IL-36a is released as a reaction to LPS and the cell ATP-induced activation of the P2X7 receptor. Mouse to human, full length IL-36a/IL-1F6 shares 54% aa sequence homology. IL-36a is mostly found in skin and lymphoid tissues, but also in fetal brain, trachea, stomach and intestine.

### Biological Activity

Measured by its binding ability in a functional ELISA to bind recombinant mouse IL-1

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Stability

Lyophilized IL36A Mouse although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution IL36A should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . Please prevent freeze-thaw cycles.

### Background

IL36A Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 160 amino acids and having a molecular mass of 21.0kDa. The IL36A is purified by proprietary chromatographic techniques.

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