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## Product Data Sheet

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Product Name: IL36A 153 a.a. Mouse

Cat. No.: GP20661

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	RAASPSLRHV QDLSSRVWIL QNNILTAVPR KEQTVPVIT LLPCQYLDL ETNRGDPTYM GVQRPMSCLF CTKDGEQPV LQLGEGNIMEM YNKKEPVKAS LFYHKKSGTT STFESAAFPG WFIAVCSKGS CPLILTQELG EIFITDFEMI VVH		
Solubility	It is recommended to reconstitute the lyophilized IL36A 153 a.a. Mouse in sterile 18M-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 1xPBS, pH 7.4 and 5% trehalose.		

**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**

Fully biologically active when compared to standard. The ED<sub>50</sub> as measured by its ability to induce IL-6 secretion in NIH-3T3 mouse embryonic fibroblast cells is less than

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

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20ng/ml, corresponding to a specific activity of 50,000IU/mg.

### Stability

Lyophilized IL36A 153 a.a. Mouse although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution IL36A 153 a.a. Mouse 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 153 a.a. Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 153 amino acids (8-160a.a.) and having a molecular mass of 17.0kDa. The IL36A 153 a.a. Mouse is purified by proprietary chromatographic techniques.

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