

## 32-1528: mL36A 153 a.a. Recombinant Protein

**Alternative Name :** Interleukin 36 alpha, FIL1E, IL1F6, FIL1, IL1 (EPSILON), interleukin 1 family member 6 (epsilon), MGC129552, MGC129553.

### Description

Source : Escherichia Coli. 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. 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.

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 95.0% as determined by SDS-PAGE and HPLC analyses.  
**Content :** Lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.4 and 5% trehalose.  
**Storage condition :** Lyophilized IL36A 153 a.a. Mouse although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL36A 153 a.a. Mouse should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.  
**Amino Acid :** RAASPSLRHV QDLSSRVWIL QNNILTAVPR KEQTVPVIT LLPCQYLDLTL ETNRGDPTYM  
GVQRPMSCLF CTKDGEQPVL QLGEGNIMEM YNKKEPVKAS LFYHKKSGTT STFESAAFPG  
WFIAVCSKGS CPLILTQELG EIFITDFEMI VVH

### Application Note

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

