

## IL36rn

### Recombinant Mouse Interleukin-36 Receptor Antagonist

<b>Catalog No.</b>	CS488A CS488B CS488C	<b>Quantity:</b>	2 µg 10 µg 1 mg
<b>Alternate Names:</b>	Fil1delta, IL36RN, IL-1h3, IL1hy1		
<b>Description:</b>	<p>Recombinant Mouse Interleukin-36 receptor antagonist (IL-36RA) is a secreted protein which belongs to the interleukin 1 cytokine family (IL-1 family) and it is predominantly expressed in keratinocytes but not in fibroblasts, endothelial cells or melanocytes. IL-36RA has been reported to antagonize the biological activity of IL-36alpha (IL-1F6), IL-36beta (IL-1F8), and IL-36gamma (IL-1F9). Furthermore, it could constitute part of an independent signaling system analogous to interleukin-1 alpha (IL-1A), beta (IL-1B) receptor agonist and interleukin-1 receptor type I (IL-1R1). In addition, the receptor for IL-36RA has not been positively identified. Indirect evidence suggests it is IL-1Rrp2. Recombinant mouse interleukin-36 RA contains 154 amino acid residues and it shares 91 % a.a. sequence identity with human IL-36RA.</p> <p>Recombinant Mouse Interleukin-36 Receptor Antagonist is a single non-glycosylated polypeptide chain containing 154 amino acids.</p>		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	Approximately 16.9 kDa		
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, + 2 mM beta-mercaptoethanol.		
<b>Purity:</b>	>95 % by SDS-PAGE and HPLC analyses.		
<b>Endotoxin Level:</b>	<1 EU/µg as determined by LAL method.		
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> determined by inhibiting IL-36 beta induced IL-6 secretion by mouse NIH/3T3 cells is <5.0 µg/ml.		
<b>Specific Activity:</b>	>200 IU/mg in the presence of 20 ng/ml of recombinant mouse IL-36 beta.		
<b>Amino Acid Sequence:</b>	VLSGALCFRM KDSALKVLYL HNNQLLAGGL HAEKVIKGEE ISVVPNRALD ASLSPVILGV QGGSQCLSCG TEKGPIKLE PVNIMELYLG AKESKSFTFY RRDMLTSSF ESAAYPGWFL CTSPEADQPV RLTQIPEDPA WDAPIITDFYF QQCD		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
<b>Storage &amp; Stability:</b>	This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2-4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. <b>Avoid repeated freeze/thaw cycles.</b>		

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