

Recombinant Mouse Il1f5 protein

Cat. No. Il1f5-553M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il1f5 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	154
Description	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-36 α (IL-1F6), IL-36 β (IL-1F8), and IL-36 γ (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 murine interleukin-36 RA contains 154 amino acid residues and it shares 91 % a.a. sequence identity with human IL-36RA.
Form	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.
Bio-activity	Measured by its ability to inhibit IL-36 γ induced IL-6 production by human PBMCs.
Molecular Mass	Approximately 16.9 kDa, a single non-glycosylated polypeptide chain containing 154 amino acids.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	VLSGALCFRMKDSALKVLYLHNNQLLAGGLHAEKVIKGEEISVVPNRALDASLSPVIL GVQGGSQCLSCGTEKGPIKLKLEPVNIMELYLGAKESKSFTFYRRDMGLTSSFESAAY PGWFLCTSPEADQPVRTLTQIPEDPAWDAPITDFYFQQCD
Endotoxin	Less than 1 EU/g of rMuIL-36RA as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	IL1f5
Official Symbol	IL1f5
Synonyms	IL1F5; interleukin 1 family, member 5 (delta); interleukin-36 receptor antagonist protein; IL-1F5; IL-1L1; IL-1HY1; IL-1 delta; interleukin-1 HY1; interleukin-1 delta; interleukin-1 homolog 3; interleukin-1-like protein 1; interleukin-1 family member 5; interleukin 1 receptor antagonist homolog 1; IL36RN; Il-1h3; Il1hy1; AI413231; Fil1delta;

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Gene ID	54450
mRNA Refseq	NM_001146087
Protein Refseq	NP_001139559
UniProt ID	Q9QYY1

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