

Recombinant Mouse Il1a protein

Cat. No. Il1a-545M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il1a protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	156
Description	Interleukin-1 alpha (IL-1 α) is a non-secreted proinflammatory cytokine produced mainly by activated macrophages, as well as neutrophils, epithelial cells, and endothelial cells. It possesses metabolic, physiological, haematopoietic activities, and plays one of the central roles in the regulation of the immune responses. Both IL-1 α and IL-1 β binds to the same receptor and has similar if not identical biological properties. Among various species, the amino acid sequence of mature IL-1 α is conserved 60 % to 70 % and human IL1 has been found to be biologically active on murine cell lines .
Form	Lyophilized from a 0.2 μ m filtered solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine D10S cells is less than 2 pg/ml, corresponding to a specific activity of > 5.0 \times 10 ⁸ IU/mg.
Molecular Mass	Approximately 17.9 kDa, a single non-glycosylated polypeptide chain containing 156

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	amino acids.
AA Sequence	SAPYTYQSDLRYKLMKLVQRQKFVMNDSLNTIYQDVKHYLSTTWLNDLQQEVKFD MYAYSSGGDDSKYPVTLKISDSQLFVSAQGEDQPVLLKELPETPKLITGSETDLIFFW KSINSKNYFTSAAYPELFATKEQSRVHLARGLPSTDFQIS
Endotoxin	Less than 1 EU/g of rMuL-1 α as determined by LAL method.
Purity	>97% 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 \leq -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Il1a
Official Symbol	Il1a
Synonyms	IL1A; interleukin 1 alpha; interleukin-1 alpha; IL-1 alpha; Il-1a;
Gene ID	16175

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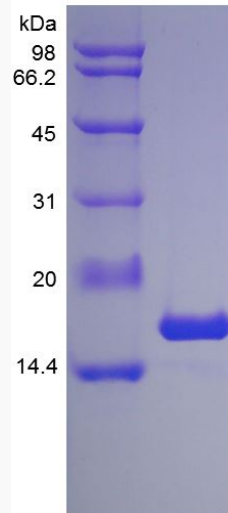
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mRNA Refseq [NM_010554](#)

Protein Refseq [NP_034684](#)

UniProt ID [Q3U0Y6](#)

**SDS-PAGE of II1a-
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