

Recombinant Rat Il1a protein

Cat. No. Il1a-573R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Il1a protein was expressed in Escherichia coli.
Species	Rat
Source	E.coli
ProteinLength	156
Description	Interleukin-1 alpha (IL-1α) 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-1α and IL-1β binds to the same receptor and has similar but not identical biological properties. Recombinant rat IL-1 alpha contains 150 amino acids which is a single non-glycosylated polypeptide.
Form	Lyophilized from a 0.2μm filtered concentrated solution in 20 mM Tris, 150 mM NaCl, pH 8.5.
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 0.005 ng/ml, corresponding to a specific activity of $> 2.0 \times 10^8$ IU/mg.
Molecular Mass	Approximately 17.8 kDa, a single non-glycosylated polypeptide chain containing 156

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	amino acids.
AA Sequence	SAPHSFQNNLRYKLIRIVKQEFIMNDSLQNQNIYVDMDRHLKAASLNDLQLEVKFDMY AYSSGGDDSKYPVTLKVSNTQLFVSAQGEDKPVLLKEIPETPKLITGSETDLIFFWEKI NSKNYFTSAAFPELLIATKEQSQVHLARGLPSPMIDFQIS
Endotoxin	Less than 1 EU/g of rRtIL-1α 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 ≤-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;
Gene ID	24493

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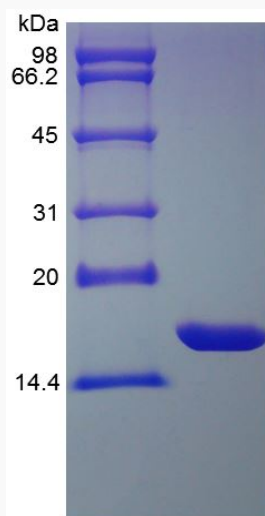
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mRNA Refseq NM_017019

Protein Refseq NP_058715

UniProt ID P16598

SDS-PAGE of Il1a-
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