

Active Recombinant Mouse IL1A Protein

Cat. No. IL1A-149M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL1A Protein without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	Interleukin 1 alpha (IL-1 α) is expressed by epithelial cells, activated macrophages, neutrophils, and endothelial cells to regulate immune responses. IL-1 α signals through the IL-1 receptor, type 1 (IL-1R1) to activate the myeloid differentiation primary response 88 (MYD88) signaling pathway, which contains the cytoplasmic Toll/IL-1 receptor (TIR) domain adapter. IL-1 α and the independently regulated IL-1 β protein have overlapping proinflammatory activities to induce adhesion molecule expression on epithelial cells, control fever induction, initiate rheumatoid arthritis, and promote septic shock.
Bio-activity	D10.G4.1 proliferation, ≤ 10 pg/mL
Molecular Mass	Monomer, 18.1 kDa (157 aa)
AA Sequence	MSAPYTYQSDLRYKLMKLVQRQKFVMNDSLNTIYQDVKHYLSTTWLNDLQQEVKF DMYAYSSGGDDSKYPVTLKISDSQLFVSAQGEDQPVLKELPETPKLITGSETDLIFF WKSINSKNYFTSAAYPELFATKEQSRVHLARGLPSTMTDFQIS
Endotoxin	≤ 1 EUs/ μ g, Kinetic LAL

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Purity	≥95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	Il1a interleukin 1 alpha [Mus musculus (house mouse)]
Official Symbol	IL1A
Synonyms	IL1A; interleukin 1 alpha; interleukin-1 alpha; IL-1 alpha; Il-1a;
Gene ID	16175
mRNA Refseq	NM_010554

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Protein Refseq	NP_034684
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UniProt ID	P01582
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