

## Active Recombinant Mouse IL1A Protein

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse IL1A Protein without tag was expressed in E. coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	Interleukin 1 alpha (IL-1 $\alpha$ ) is expressed by epithelial cells, activated macrophages, neutrophils, and endothelial cells to regulate immune responses. IL-1 $\alpha$ 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 $\alpha$ and the independently regulated IL-1 $\beta$ protein have overlapping proinflammatory activities to induce adhesion molecule expression on epithelial cells, control fever induction, initiate rheumatoid arthritis, and promote septic shock.
<b>Bio-activity</b>	D10.G4.1 proliferation, $\leq 10$ pg/mL
<b>Molecular Mass</b>	Monomer, 18.1 kDa (157 aa)
<b>AA Sequence</b>	MSAPYTYQSDLRYKLMKLVLRQKFVMNDSL NQTIYQDVKHYLSTTWLNDLQQEVKF DMYAYSSGGDDSKYPVTLKISDSQLFVSAQGEDQPVLLKELPETPKLITGSETDLIFF WKSINSKNYFTSAAYPELFIATKEQSRVHLARGLP SMTDFQIS
<b>Endotoxin</b>	$\leq 1$ EUs/ $\mu$ g, Kinetic LAL

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<b>Purity</b>	≥95%, Reducing and Non-Reducing SDS PAGE
<b>Stability</b>	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.
<b>Storage</b>	Storage Prior to Reconstitution: -20 centigrade
<b>Storage Buffer</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
<b>Reconstitution</b>	Sterile water at 0.1 mg/mL
<b>Shipping</b>	Room temperature
<b>Instructions</b>	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

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

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**Protein Refseq** NP\_034684

**UniProt ID** P01582

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