

Active Recombinant Mouse Il1a Protein, His tagged

Cat. No. Il1a-13M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse IL-1 alpha, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
ProteinLength	115-270 aa
Description	Enables cytokine activity. Involved in positive regulation of angiogenesis and positive regulation of vascular endothelial growth factor production. Acts upstream of or within several processes, including connective tissue replacement involved in inflammatory response wound healing; ectopic germ cell programmed cell death; and extrinsic apoptotic signaling pathway in absence of ligand. Located in extracellular space. Is expressed in several structures, including alimentary system; brain; early conceptus; genitourinary system; and hemolymphoid system. Human ortholog(s) of this gene implicated in several diseases, including Fabry disease; Schnitzler syndrome; autoimmune disease (multiple); hematologic cancer (multiple); and lung disease (multiple). Orthologous to human IL1A (interleukin 1 alpha).
Form	Liquid in Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Bio-activity	Measured in a cell proliferation assay using D10.G4.1 mouse helper T cells. The ED50 range ≤ 0.15 ng/mL.

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Molecular Mass	19.0 kDa (165 aa)
AASequence	SAPYTYQSDLRYKLMKLVQRQKFVMNDSLNTIYQDVKHYLSTTWLNDLQQEVKFD MYAYSSGGDDSKYPVTLKISDSQLFVSAQGEDQPVLLKELPETPKLITGSETDLIFFW KSINSKNYFTSAAYPELFIATKEQSRVHLARGLPMTDFQIS
Endotoxin	< 1 EU/μg by LAL
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by Absorbance at 280nm)
Reference	1. Dinarello CA., et al. (1997) Semin Oncol. 24:S9-81-S9-93. 2. Bankers-Fulbright JL., et al. (1996) Life Sci. 59:61-83.

GENE INFORMATION

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

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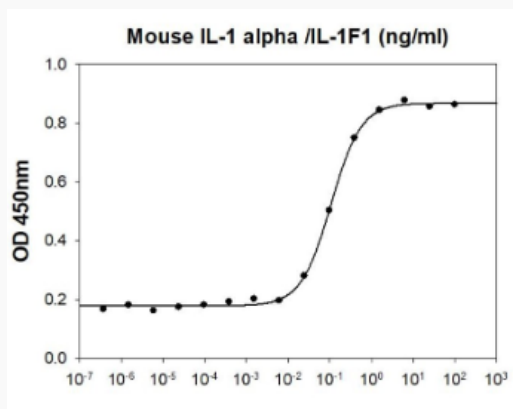
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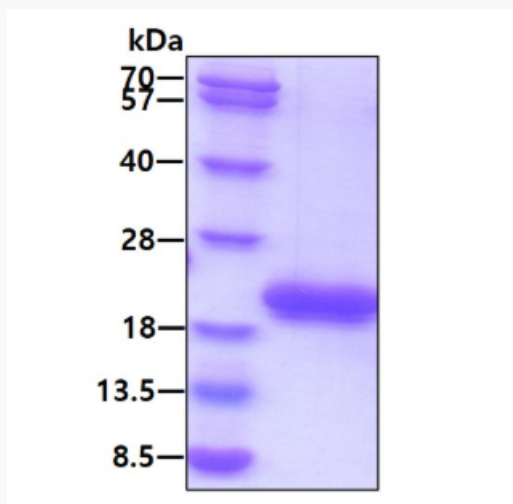
Protein Refseq NP_034684

UniProt ID P01582

Activity



SDS-PAGE



3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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