

Active Recombinant Mouse IL1a Protein, His-Tagged

Cat. No. IL1a-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IL1a protein, His-tagged was expressed in E. coli cell
Species	Mouse
Source	E.coli
Description	Interleukin 1 alpha (IL-1α) also known as hematopoietin 1 is a cytokine of the interleukin 1 family that in humans is encoded by the IL1A gene. IL-1α is 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. It binds to the interleukin-1 receptor. It is on the pathway that activates tumor necrosis factor-alpha.
Form	Lyophilized powder
AA Sequence	MSAPYTYQSDLR YKLMKLV RQKFVMNDSL NQTIYQD VDKHYLSTTWLNDLQQEVKF DMYAYSSGGDDSKYPVTLKISDSQLFVSAQGED QPVLLKELPETPKLITGSETDLIFFWKSINSKNYFTSAAYPELFATKEQSRVHLARGL PSMTDFQIS with His tag at the C-terminus
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Bio-activity	Measure by its ability to induce D10.G4.1 cells proliferation. The ED50 for this effect is <5 pg/mL. The specific activity of recombinant mouse IL-1 alpha is > 2 x 10 ⁸ IU/mg.

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Purity	>95% as determined by SDS-PAGE. Ni-NTA chromatography
Storage Buffer	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Notes	Please use within one month after protein reconstitution.

GENE INFORMATION

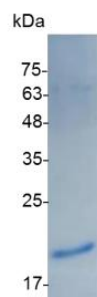
Gene Name	Il1a interleukin 1 alpha [Mus musculus (house mouse)]
Official Symbol	Il1a
Synonyms	Il-1a
Gene ID	16175
mRNA Refseq	NM_010554.4
Protein Refseq	NP_034684.2
UniProt ID	P01582

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**SDS-PAGE analysis
of recombinant
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