



Recombinant Mouse IL-1 alpha

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	M10-012S
Size:	2 µg
Lot. No.:	According to product label

Sequence

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SAPYTYQSDL RYKLMKLVQR KFMNDSLNQ TIYQDVDPKHY  
LSTTWLNDLQ QEVKFDYAY SSGGDDSKYP VTLKISDSQL  
FVSAQGEDQP VLLKELPETP KLITGSETDL IFFWKSINSK  
NYFTSAAYPE LFIATKEQSR VHLARGLPSM TDFQIS
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Database References

Protein RefSeq:	NP_034684.2
Uniprot ID:	P01582
mRNA RefSeq:	NM_010554

Scientific Background

Gene-ID (NCBI):	16175
Synonyms:	Il1a; Il-1a

IL-1 α is a non-secreted proinflammatory cytokine produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL-1 α and IL-1 β binds to the same receptor and has similar if not identical biological properties. These cytokines have a broad range of activities including, stimulation of thymocyte proliferation, by inducing IL-2 release, B-cell maturation and proliferation, mitogenic FGF-like activity and the ability to stimulate the release of prostaglandin and collagenase from synovial cells. However, whereas IL-1 β is a secreted cytokine, IL-1 α is predominantly a cell-associated cytokine. Recombinant murine IL-1 α is an 17.9 kDa protein containing 156 amino acid residues.

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	159
MW:	17.9 kDa

Biological Activity: The ED50 as determined by the dose-dependent stimulation of murine D10S cells is < 0.002 ng/ml, corresponding to a specific activity of > 5 x 10⁸ units/mg.



AVOID REPEATED FREEZE AND THAW CYCLES!