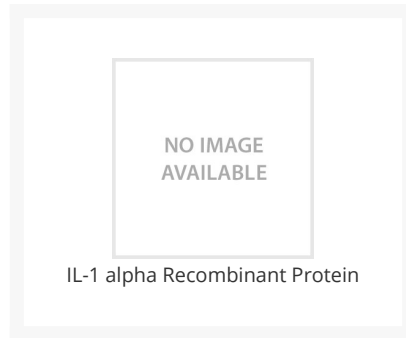




# IL-1 alpha Recombinant Protein

Cat. No.: 40-461



## Ψ Specifications

<b>SPECIES:</b>	Rat
<b>SOURCE SPECIES:</b>	E. coli
<b>SEQUENCE:</b>	MAPHSFQNNL RYKLIRIVKQ EFIMNDSLNLQ NIYVDMDRIH LKAASLNDLQ LEVKFDMYAY SSGGDSKYPV TLKVSNTQLF VSAQGEDKPV LLKEIPETPK LITGSETDLI FFWEKINSKN YFTSAAPPEL LIATKEQSQV HLARGLPMSI DFQIS
<b>TESTED APPLICATIONS:</b>	

## Ψ Properties

<b>PURITY:</b>	Greater than 98% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per µg (1EU/µg).
<b>PHYSICAL STATE:</b>	Lyophilized
<b>STORAGE CONDITIONS:</b>	The lyophilized IL-1 alpha recombinant protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted IL-1 alpha is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. As with any protein, exposing IL-1 alpha recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

<b>OFFICIAL SYMBOL:</b>	Il1a
<b>ALTERNATE NAMES:</b>	IL-1 alpha, Interleukin-1 alpha, IL-1 alpha
<b>ACCESSION NO.:</b>	NP_058715.1
<b>PROTEIN GI NO.:</b>	8393593
<b>GENE ID:</b>	24493

## Background and References

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<b>BACKGROUND:</b>	<p>IL-1<math>\beta</math> is a non-secreted proinflammatory cytokine produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL-1<math>\alpha</math> and IL-1<math>\beta</math> 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<math>\beta</math> is a secreted cytokine, IL-1<math>\alpha</math> is predominantly a cell-associated cytokine. Recombinant rat IL-1<math>\alpha</math> is a 17.7 kDa protein containing 155 amino acid residues.</p>
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