

Active Recombinant Rat Il1a Protein

Cat. No. Il1a-2511 Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Il1a Protein without tag was expressed in CHO.
Species	Rat
Source	CHO
Description	Interleukin-1 alpha (IL-1 α), is produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL-1alpha and IL-1beta bind to the same receptor and have similar if not identical biological properties. These cytokines have a broad range of activities including stimulation of thymocyte proliferation via 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-1beta is a secreted cytokine, IL-1alpha is predominantly a cell-associated cytokine.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 5 pg/mL, measured in a proliferation assay using D10S cells.
Molecular Mass	17~22 kDa, observed by reducing SDS-PAGE.
AA Sequence	APHSFQNNLRYKLRIVKQEFIMNDSLQNIYVDMDRIHLKAASLNDLQLEVKFDMYA YSSGGDDSKYPVTLKVSNTQLFVSAQGDKPVLLKEIPETPKLITGSETDLIFFWEKIN SKNYFTSAAFPELLIATKEQSQVHLARGLPSPMIDFQIS

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Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Rat Interleukin-1 alpha remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Rat Interleukin-1 alpha should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	Il1a interleukin 1 alpha [<i>Rattus norvegicus</i>]
Official Symbol	Il1a
Synonyms	IL1A; interleukin 1 alpha; interleukin-1 alpha; IL-1 alpha;
Gene ID	24493
mRNA Refseq	NM_017019
Protein Refseq	NP_058715
UniProt ID	P16598

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