

Datasheet for ABIN7321259

**IL1A Protein****1** Image[Go to Product page](#)

## Overview

Quantity:	50 µg
Target:	IL1A
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

## Product Details

Purpose:	Recombinant Rat IL-1A/ IL-1α Protein
Sequence:	Ser115-Ser270
Characteristics:	Recombinant Rat Interleukin-1 Alpha is produced by our E.coli expression system and the target gene encoding Ser115-Ser270 is expressed.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	<1.0 EU per µg as determined by LAL test.

## Target Details

Target:	IL1A
Alternative Name:	IL-1A/ IL-1alpha ( <a href="#">IL1A Products</a> )
Background:	Background: Interleukin 1 (IL-1) is a name that designates two proteins, IL-1α and IL-1β, which are the products of distinct genes, but which show approximately 25 % amino acid (aa) sequence identity and which recognize the same cell surface receptors. IL-1α and IL-1β are both synthesized as 31 kDa precursors that are subsequently cleaved into proteins with molecular

## Target Details

weights of approximately 17,000 Da. Neither precursor contains a typical hydrophobic signal peptide sequence and most of the precursor form of IL-1 $\alpha$  remains in the cytosol of cells, although there is evidence for a membranebound form of the precursor form of IL-1 $\alpha$ . Although IL-1 production is generally considered to be a consequence of inflammation, evidence suggests that IL-1 is also temporally upregulated during bone formation and the menstrual cycle and can be induced in response to nervous system stimulation. In response to classic stimuli produced by inflammatory agents, infections or microbial endotoxins, a dramatic increase in the production of IL-1 by macrophages and various other cells is seen.

Synonym: Interleukin-1 alpha, IL-1 alpha, Il1a

Molecular Weight:	17.9 kDa
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UniProt:	<a href="#">P16598</a>
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Pathways:	<a href="#">NF-kappaB Signaling</a> , <a href="#">Autophagy</a> , <a href="#">Cancer Immune Checkpoints</a>
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## Application Details

Restrictions:	For Research Use only
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## Handling

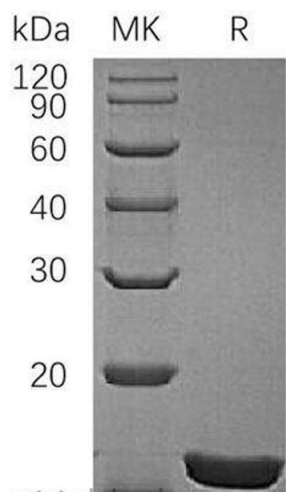
Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4.
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Storage:	4 °C,-20 °C,-80 °C
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Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
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Western Blotting

Image 1.