

Datasheet for ABIN7566201

## IL1A Protein (AA 113-271) (His tag)



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### Overview

Quantity:	10 µg
Target:	IL1A
Protein Characteristics:	AA 113-271
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL1A protein is labelled with His tag.

### Product Details

Purpose:	IL-1alpha (human) (rec.) (His)
Cross-Reactivity:	Human
Characteristics:	Human IL-1alpha (aa 113-271) is fused at the C-terminus to a His-tag.
Purity:	>95 % (SDS-PAGE)
Endotoxin Level:	<1EU/µg protein (LAL test, Lonza).

### Target Details

Target:	IL1A
Alternative Name:	IL-1alpha ( <a href="#">IL1A Products</a> )
Background:	Interleukin-1alpha, IL-1F1, IL-1A The most prominent members of the interleukin-1 (IL-1) superfamily are IL-1alpha and IL-1beta.

## Target Details

They lack a signal peptide and are secreted by an unconventional, endoplasmic reticulum-Golgi-independent mechanism. IL-1alpha was reported to be more widely and constitutively expressed and has intracellular functions, but also acts locally in a membrane-bound form by activating IL-1R1. Additionally, passive release of IL-1alpha upon cell death can trigger a sterile inflammatory response to dying cells. The cleavage of IL-1alpha is not mediated by caspase-1 and is not required for binding to IL-1R1. Recently it has been observed that all activators of the inflammasome NLRP3/NALP3 induce the simultaneous secretion of IL-1alpha and IL-1beta. Although most activators fully rely on the inflammasome for IL-1alpha secretion, some induce the processing and secretion of IL-1alpha in an inflammasome-independent manner.

NCBI Accession: [NP\\_000566](#)

Pathways: [NF-kappaB Signaling](#), [Autophagy](#), [Cancer Immune Checkpoints](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Buffer: Lyophilized from a concentrated sterile solution containing 50 mM Tris-HCl buffer ( pH 8.0) and 100 mM NaCl.

Handling Advice: Avoid freeze/thaw cycles. Centrifuge lyophilized vial before opening and reconstitution.

Storage: 4 °C, -20 °C

Storage Comment: Short Term Storage: +4°C

Long Term Storage: -20°C

Use & Stability: Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.