

Datasheet for ABIN7566200
IL1A Protein (AA 113-271)



[Go to Product page](#)

Overview

Quantity:	10 µg
Target:	IL1A
Protein Characteristics:	AA 113-271
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	IL-1alpha (human) (rec.)
Cross-Reactivity:	Human
Characteristics:	Human IL-1alpha (aa 113-271).
Purity:	>95 % (SDS-PAGE)
Sterility:	Sterile filtered
Endotoxin Level:	<0.01EU/µg protein (LAL test, Lonza).
Biological Activity Comment:	The ED50 as determined by the dose-dependent stimulation of murine D10S cells is < 0.001 ng/ml, corresponding to a specific activity of > 1 x 10 ⁹ units/mg.

Target Details

Target:	IL1A
---------	------

Target Details

Alternative Name: IL-1alpha ([IL1A Products](#))

Background: Interleukin-1alpha, IL-1F1, IL-1A

The most prominent members of the interleukin-1 (IL-1) superfamily are IL-1alpha and IL-1beta. 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.

Molecular Weight: ~19kDa (SDS-PAGE)

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 0.2µm-filtered solution in PBS.

Handling Advice: Avoid freeze/thaw cycles. Centrifuge lyophilized vial before opening and reconstitution. PBS containing at least 0.1 % BSA should be used for further dilutions.

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.