

Recombinant Human interleukin 1, alpha Protein, His&Flag tagged

Cat. No. IL1A-061H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human IL-1 alpha/IL1A protein (P01583) (Ser 113-Ala 271) with both His, Flag tag at the C-terminus was expressed in HEK293.

Species

Human

Source

HEK293

ProteinLength

113-271aa

Description

Cytokine constitutively present intracellularly in nearly all resting non-hematopoietic cells that plays an important role in inflammation and bridges the innate and adaptive immune systems. After binding to its receptor IL1R1 together with its accessory protein IL1RAP, forms the high affinity interleukin-1 receptor complex. Signaling involves the recruitment of adapter molecules such as MYD88, IRAK1 or IRAK4. In turn, mediates the activation of NF-kappa-B and the three MAPK pathways p38, p42/p44 and JNK pathways. Within the cell, acts as an alarmin and cell death results in its liberation in the extracellular space after disruption of the cell membrane to induce inflammation and alert the host to injury or damage. In addition to its role as a danger signal, which occurs when the cytokine is passively released by cell necrosis, directly senses DNA damage and acts as signal for genotoxic stress without loss of cell integrity.

Tag

C-His&Flag

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Molecular Mass	20.7 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

Gene Name	IL1A interleukin 1, alpha [<i>Homo sapiens (human)</i>]
Official Symbol	IL1A
Synonyms	IL1A; interleukin 1, alpha; IL1; interleukin-1 alpha; hematopoietin 1; IL 1A; IL1 ALPHA; IL1F1; preinterleukin 1 alpha; pro interleukin 1 alpha; IL-1 alpha; hematopoietin-1; pro-interleukin-1-alpha; IL-1A; IL1-ALPHA;
Gene ID	3552
mRNA Refseq	NM_000575
Protein Refseq	NP_000566

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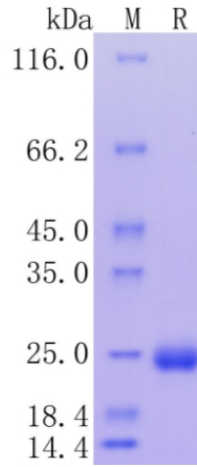
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MIM 147760

UniProt ID P01583

Protein on SDS-PAGE under reducing (R) condition.



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