

Mouse IL-1 alpha/IL1A, C-His Tag Protein

HA210971



Product name:	Mouse IL-1 alpha/IL1A, C-His Tag
Species reactivity:	Mouse
Bio-Activity:	Testing in progress.
Protein construction description:	A DNA sequence encoding the mouse IL-1 alpha/IL1A protein (P01582) (Ser 115-Ser 270) was expressed with a His tag at the C-terminus.

Background: 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 a signal for genotoxic stress without loss of cell integrity.

Purity: >95% as determined by SDS-PAGE.

Endotoxin: Less than 1.0 EU per µg by the LAL method.

Fragment region: IL-1 alpha/IL1A (115-270)

Source: HEK293

Accession: P01582

Predicted molecular mass: 19.4 kD

Formulation: 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.

Storage: Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

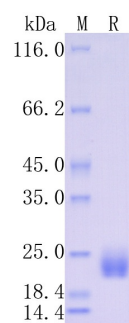


Fig1: Protein on SDS-PAGE under reducing (R) condition.

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