Genomeditech (Shanghai) Co.,Ltd.
Order: 021-68455258/50432826/50432825

Toll-free: 400 627 9288

Email: service@genomeditech.com

Biotinylated Human IL-1 alpha Protein; His-Avi Tag

Product Information

Product Name Biotinylated Human IL-1 alpha Protein; His-Avi Tag

Storage temp Store at \leq -70°C, stable for 6 months after receipt.

Recommend to aliquot the protein into smaller quantities for

optimal storage. Please minimize freeze-thaw cycles.

Catalog# / Size GM-88251RP-25 / 25 μg

GM-88251RP-200 / 200 µg

Protein Information

Alternative Names IL1A, IL-1 ALPHA, IL1F1, IL1α

Source Biotinylated Human IL-1 alpha Protein; His-Avi Tag (GM-88251RP) is

expressed from human 293 cells (HEK-293). It contains AA Ser 113 - Ala 271

(Accession # P01583-1).

This protein carries a His-Avi tag at the C-terminus.

Purity > 90% as determined by SDS-PAGE

Endotoxin < 1 EU/μg, determined by LAL gel clotting assay

Predicted Mol Mass 20.7 KDa

Formulation Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.

Description The IL-1 family includes IL-1 α (IL1A) and IL-1 β (IL1B), both of which are

important pro-inflammatory cytokines. IL-1 α is typically matured intracellularly and can exist in membrane-bound or cytosolic forms; upon damage or stress, it is

released and initiates inflammatory signaling via the IL-1R1/IL-1RAcP complex. IL-1β is secreted after processing by inflammasomes (e.g., NLRP3) that cleave

the precursor, forming a classic paracrine signal. Both activate downstream

pathways through the IL-1R1/IL-1RAcP axis, promoting the expression of pro-

inflammatory genes such as IL-6, IL-8, and TNF-α, participating in inflammation,

immune cell recruitment, and tissue repair; however, their sources, processing,

and release mechanisms differ significantly.

The amplification of IL-1 signaling mainly occurs through a MyD88-dependent cascade, activating the IKK/NF-κB and MAPK pathways (including p38, ERK,

and JNK), rapidly promoting transcription and post-transcriptional regulation. In

addition to paracrine spread, IL-1 α/β can also be released into the cytosol under

stress and directly interact with receptors on neighboring cells, shaping a localized

inflammatory microenvironment.

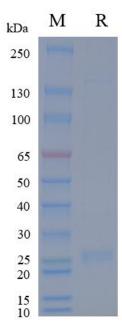
Version:4.0

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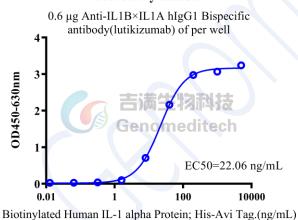
SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA

Bioactivity-ELISA



Anti-IL1B×IL1A hIgG1 Bispecific antibody(lutikizumab) (Catalog # GM-88265AB) was immobilized at 6 μ g/ml (100 μ L/well). Increasing concentrations of Biotinylated Human IL-1 alpha Protein; His-Avi Tag (Catalog # GM-88251RP) were added.