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

Toll-free: 400 627 9288

Email: service@genomeditech.com

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

Product Information

Product NameBiotinylated Human IL-1 beta 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-88336RP-25 / 25 μg

GM-88336RP-200 / 200 µg

Protein Information

Alternative Names IL1B, IL-1BETA, IL1F2, IL-1β

Source Biotinylated Human IL-1 beta Protein; His-Avi Tag (GM-88336RP) is expressed

from human 293 cells (HEK-293). It contains AA Ala 117 - Ser 269 (Accession #

P01584-1).

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

Purity > 90% as determined by SDS-PAGE

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

Predicted Mol Mass 20.0 KDa

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

Description The IL-1 family includes IL-1α (IL1A) and IL-1β (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-1 β 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- κ B 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

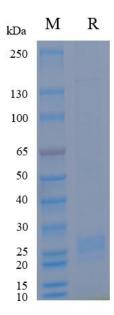


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SDS-PAGE

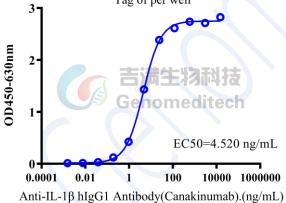


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA

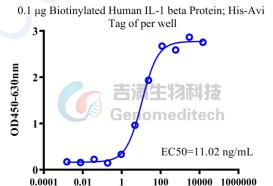
Bioactivity-ELISA

0.1 μg Biotinylated Human IL-1 beta Protein; His-Avi Tag of per well



Biotinylated Human IL-1 beta Protein; His-Avi Tag (Catalog # GM-88336RP) was immobilized at 1 μ g/ml (100 μ L/well) on streptavidin precoated. Increasing concentrations of Anti-IL-1β hIgG1 Antibody(Canakinumab) (Catalog # GM-51764AB) were added.

Bioactivity-ELISA



Anti-IL1B×IL1A hIgG1 Bispecific antibody(lutikizumab).(ng/mL)

Biotinylated Human IL-1 beta Protein; His-Avi Tag (Catalog # GM-88336RP) was immobilized at 1 μ g/ml (100 μ L/well) on streptavidin precoated. Increasing concentrations of Anti-IL1B×IL1A hIgG1 Bispecific antibody(lutikizumab) (Catalog #GM-88265AB) were added.