

Product Sheet



Mouse IL-1 beta Protein; His Tag

GM-89087RP-100 / 100 µg

GM-89087RP-1000 / 1 mg

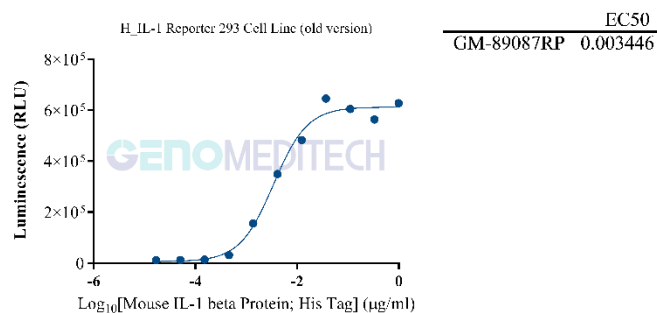
Product Information

Product Name	Mouse IL-1 beta Protein; His Tag
Source	Mouse IL-1 beta Protein; His Tag (GM-89087RP) is expressed from human 293 cells (HEK-293). It contains AA Val 118 - Ser 269 (Accession # P10749). This protein carries a His tag at the N-terminus.
Predicted MW	18.2 kDa
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/µg, determined by LAL gel clotting assay
Formulation	Liquid; Supplied as a 0.2 µm filtered solution of PBS, pH 7.2–7.4.
Storage	Store at ≤ -70°C, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Shipping	Shipped on dry ice.
Synonyms	IL1B, IL-1BETA, IL1F2, IL-1β
Background	The IL-1 family includes IL-1α 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. The amplification of IL-1 signaling mainly occurs through a MyD88-dependent cascade, activating the IKK/NF-κB and MAPK pathways, rapidly promoting transcription and post-transcriptional regulation. In addition to paracrine spread, IL-1α/β can also be released into the cytosol under stress and directly interact with receptors on neighboring cells, shaping a localized inflammatory microenvironment.

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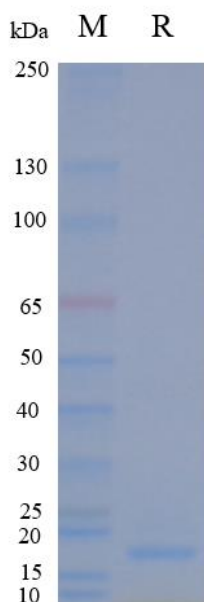
Data

Biological Activity



Mouse IL-1 beta Protein; His Tag (Catalog # GM-89087RP) was added into H_IL-1 Reporter 293 Cell Line (old version) (Catalog # GM-C26463) and stimulates related signals.

Purity



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

Related Products

IL-1	
H_IL1RAP IL1R1 KO Reporter HEK-293 Cell Line	H_IL1RAP KO HEK-293 Cell Line
H_IL-1 Reporter 293 Cell Line	H_IL-1 Reporter 293 Cell Line (old version)
Cynomolgus_IL-1R HEK-293 Cell Line	Cynomolgus_IL1RAP CHO-K1 Cell Line
Cynomolgus_IL1RAP HEK-293 Cell Line	Cynomolgus_IL1RAP HEK-293(IL1RAP KO) Cell Line
H_IL-1R CHO-K1 Cell Line	H_IL-1R HEK-293 Cell Line
H_IL1RAP CHO-K1 Cell Line	H_IL1RAP HEK-293 Cell Line
Membrane bound H_IL-1α CHO-K1 Cell Line	Membrane bound H_IL-1α HEK-293 Cell Line
Membrane bound H_IL-1β CHO-K1 Cell Line	Membrane bound H_IL-1β HEK-293 Cell Line
Mouse_IL1RAP HEK-293 Cell Line	Mouse_IL1RAP HEK-293(IL1RAP KO) Cell Line

Rat_IL1RAP HEK-293 Cell Line	Rat_IL1RAP HEK-293(IL1RAP KO) Cell Line
Anti-IL1B×IL1A hIgG1 Bispecific antibody(lutikizumab)	Anti-IL1R1 hIgG1 Antibody(AMG 108)
Anti-IL1RAP hIgG1 Antibody (Nadunolimab)	Anti-IL-1β hIgG1 Antibody(Canakinumab)
Biotinylated Human IL-1 alpha Protein; His-Avi Tag	Biotinylated Human IL-1 beta Protein; His-Avi Tag
Cynomolgus IL-1 alpha Protein; His Tag	Cynomolgus IL-1 beta Protein; His Tag
Human IL-1 alpha Protein; hFc Tag	Human IL-1 alpha Protein; His Tag
Human IL-1 beta Protein; hFc Tag	Human IL-1 beta Protein; His Tag
Human IL-1RAP Protein; hFc Tag	Human IL-1RAP Protein; His Tag
Human IL-1RI Protein; hFc Tag	Human IL-1RI Protein; His Tag
Human IL-1RI&IL-1RAP Heterodimer Protein; hFc Tag (Goflikicept)	