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

Toll-free: 400 627 9288

Email: service@genomeditech.com

Human IL-1RI Protein; hFc Tag

Product Information

Product Name Human IL-1RI Protein; hFc 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-88249RP-100 / 100 μg

GM-88249RP-1000 / 1 mg

Protein Information

Alternative Names IL-1R-1; IL-1RT-1; IL-1RT1; CD121a

Source Human IL-1RI Protein; hFc Tag (GM-88249RP) is expressed from human 293

cells (HEK-293). It contains AA Leu 18 - Lys 336 (Accession # P14778).

This protein carries a hFc tag at the C-terminus.

Purity > 95% as determined by SDS-PAGE

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

Predicted Mol Mass 62.6 KDa

Formulation Supplied as a 0.2 μm filtered solution of PBS, pH 7.2-7.4.

Description Interleukin-1 receptor type I (IL-1RI) is a transmembrane receptor central to

inflammatory responses. It binds IL-1 α and IL-1 β , triggering signaling that promotes immune activation, fever, and acute-phase reactions. IL-1RI is widely expressed on many cell types (e.g., macrophages, endothelial and epithelial cells) and forms a signaling complex with IL-1RAcP. Dysregulation of IL-1RI signaling is linked to inflammatory diseases, making it a key therapeutic target.

Paragraph 2 – Signaling pathway

IL-1 binding recruits IL-1RAcP and MyD88, activating IRAKs and TRAF6, which then stimulate the IKK complex. This leads to IκB phosphorylation/degradation and NF-κB nuclear translocation, driving proinflammatory gene transcription. The pathway also activates MAP kinases (p38, JNK, ERK). Cross-talk with other pathways modulates the response, and regulators like receptor antagonists and decoy receptors help prevent excessive

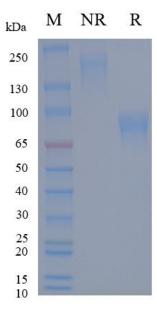
inflammation.

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SDS-PAGE

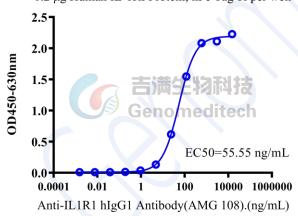


On SDS-PAGE under nun-reducing (NR) condition and reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

Bioactivity-ELISA

0.2 μg Human IL-1RI Protein; hFc Tag of per well



Human IL-1RI Protein; hFc Tag (Catalog # GM-88249RP) was immobilized at 2 μ g/ml (100 μ L/well). Increasing concentrations of Anti-IL1R1 hIgG1 Antibody(AMG 108) (Catalog # GM-51990AB) were added.