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

Toll-free: 400 627 9288

Email: service@genomeditech.com

Human TNFR1 Protein; hFc Tag

Product Information

Product Name Human TNFR1 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-88212RP-100 / 100 μg

GM-88212RP-1000 / 1 mg

Protein Information

Alternative Names TNFR1, CD120a, TNFRSF1A, FPF, TBP1, TNF-R-I, TNF-R55, TNFAR

Source Human TNFR1 Protein; hFc Tag (GM-88212RP) is expressed from human 293

cells (HEK-293). It contains AA Leu 30 - Thr 211 (Accession # P19438-1).

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 46.4 KDa

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

Description TNF receptors 1 and 2 (TNFR1 and TNFR2) mediate the effects of tumor necrosis

factor (TNF). TNFR1, found on most nucleated cells, has a death domain and can trigger apoptosis or NF- κ B/MAPK—mediated survival signals, activated by both soluble and membrane-bound TNF. TNFR2, mainly on immune and endothelial cells (lacks a death domain), promotes cell survival and regulatory T cell function via NF- κ B and related pathways, often in response to membrane-bound TNF. The two receptors can form heterotrimers and modulate each other's signaling,

reflecting TNF biology's complexity.

TNF- α signals primarily through its receptors TNFR1 (p55) and TNFR2 (p75), triggering multiple pathways. TNFR1 activation commonly leads to NF- κ B and MAPK signaling, promoting transcription of inflammatory genes, survival factors, and sometimes apoptosis via caspase cascades. TNFR2 mainly modulates immune cell activation and can enhance TNF- α -driven responses. Cross-talk with other cytokines shapes the intensity and duration of inflammation. Therapeutically, TNF- α inhibitors are used to treat autoimmune diseases, but

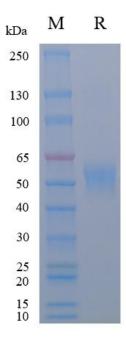
neutralization must balance infection risk and immune suppression.

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SDS-PAGE

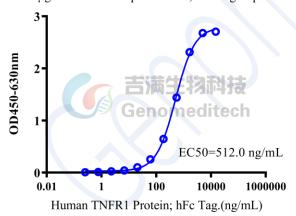


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

Bioactivity-ELISA

0.2 µg Human TNF alpha Protein; His Tag of per well



Human TNF alpha Protein; His Tag (Catalog # GM-88209RP) was immobilized at 2 μ g/ml (100 μ L/well). Increasing concentrations of Human TNFR1 Protein; hFc Tag (Catalog # GM-88212RP) were added.