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

Toll-free: 400 627 9288

Email: service@genomeditech.com

Human TNFRSF9(4-1BB) Protein; His Tag

Product Information

Product Name Human TNFRSF9(4-1BB) Protein; His 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-88100RP-100 / 100 μg

GM-88100RP-1000 / 1 mg

Protein Information

Alternative Names TNFRSF9, 4-1BB, CD137, CDw137, ILA

Source Human TNFRSF9(4-1BB) Protein; His Tag (GM-88100RP) is expressed from

human 293 cells (HEK-293). It contains AA Leu 24 - Gln 186 (Accession #

Q07011-1).

This protein carries a His 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 18.6 KDa

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

Description 4-1BB, also known as CD137, is a member of the TNF receptor superfamily. It is

a transmembrane receptor expressed on activated T cells, NK cells, dendritic cells, and some other immune cells, with inducible expression upon activation. Its ligand, 4-1BBL (CDux/TNFSF9), is typically expressed on antigen-presenting cells. Engagement of 4-1BB enhances T cell proliferation, survival, cytokine production (notably IFN- γ), and sustains anti-tumor and anti-viral responses. Dysregulation of 4-1BB signaling has implications for autoimmunity and

transplant tolerance, and it is a target for immunotherapies.

4-1BB signaling is initiated by binding to 4-1BBL, leading to recruitment of adaptor proteins and activation of the NF-κB and MAPK pathways, as well as PI3K-AKT signaling in certain contexts. This promotes T cell survival (upregulation of anti-apoptotic genes), expansion, and effector function, including cytokine production. The pathway can be modulated by co-stimulatory or co-inhibitory signals and can synergize with other TNF family members or checkpoint regulators. Therapeutically, 4-1BB agonists are explored to boost anti-tumor immunity, while excessive activation may cause immunopathology.

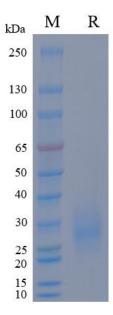
Version:4.0

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SDS-PAGE

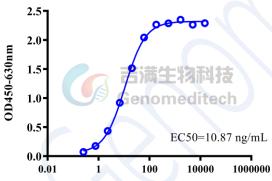


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

Bioactivity-ELISA

0.2 µg Human TNFRSF9(4-1BB) Protein; His Tag of per well



Human TNFSF9(4-1BBL) Protein; hFc Tag.(ng/mL)

Human TNFRSF9(4-1BB) Protein; His Tag (Catalog # GM-88100RP) was immobilized at 2 μ g/ml (100 μ L/well). Increasing concentrations of Human TNFSF9(4-1BBL) Protein; hFc Tag (Catalog # GM-88104RP) were added.