Recombinant Human TNFSF9 protein, Mouse IgG2a Fc-tagged, low endotoxin

Cat. No. TNFSF9-233H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFSF9 protein (Ala50-Glu254)(low endotoxin), fused to Mouse IgG2a Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	205
Description	Tumor necrosis factor ligand superfamily member 9 (4-1BBL) is also known as 4-1BB ligand, CD137L or TNFSF9, which is a cytokine that binds to TNFRSF9. 4-1BBL is the high affinity ligand of 4-1BB. 4-1BBL induces the proliferation of activated peripheral blood T-cells. Also, 4-1BBL may have a role in activation-induced cell death (AICD). Furthermore, 4-1BBL may play a role in cognate interactions between T-cells and B-cells/macrophages. As for diseases, 4-1BBL is involved in cancers, infectious diseases and autoimmune diseases.
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 48.3 kDa. The protein migrates as 47-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.1 EU per ug by the LAL method.

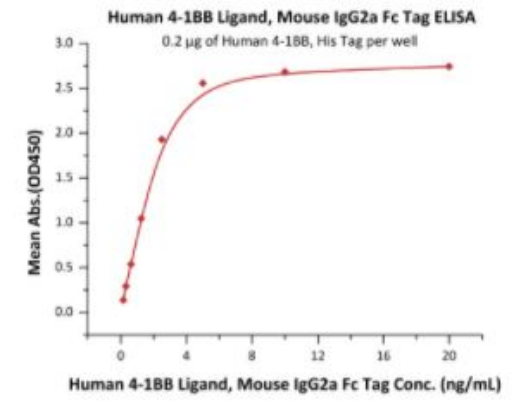
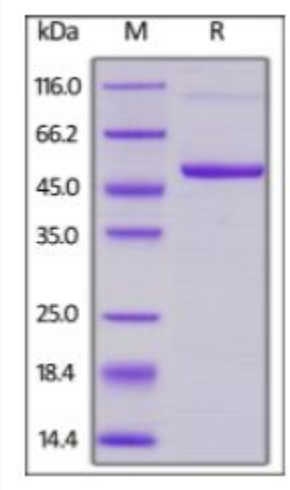
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Purity	>90% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	TNFSF9
Official Symbol	TNFSF9
Synonyms	TNFSF9; tumor necrosis factor (ligand) superfamily, member 9; tumor necrosis factor ligand superfamily member 9; 4 1BB L; homolog of mouse 4 1BB L; receptor 4 1BB ligand; 4-1BBL; 4-1BB ligand; receptor 4-1BB ligand; homolog of mouse 4-1BB-L; CD137L; 4-1BB-L
Gene ID	8744
mRNA Refseq	NM_003811
Protein Refseq	NP_003802
MIM	606182

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UniProt ID	P41273
Bioactivity-ELISA of TNFSF9-233H	 Immobilized Human 4-1BB, His Tag at 2 μg/mL (100 μL/well) can bind Human 4-1BB Ligand, Mouse IgG2a Fc Tag, low endotoxin with a linear range of 0.16-2.5 ng/mL (QC tested).
SDS-PAGE of TNFSF9-233H	 Human 4-1BB Ligand, Mouse IgG2a Fc Tag, low endotoxin on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The

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	purity of the protein is greater than 90%.

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