

Active Recombinant Human TNFSF9 Protein (Arg71-Glu254), C-His tagged, Animal-free, Carrier-free

Cat. No. TNFSF9-307H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFSF9 Protein (Arg71-Glu254) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Arg71-Glu254
Description	4-1BB ligand (4-1BBL) is a type II transmembrane protein that is part of the tumor necrosis factor (TNF) ligand family. As an inducible co-stimulatory molecule, it presents on several antigen presenting cell (APC) types, including B cells, macrophages and DCs. The interactions between 4-1BB and 4-1BBL trigger pleiotropic effects on the immune response including antigen presenting process, proliferation of CD4 and CD8 positive T-cells, as well as cytokine secretion from T-cells through NFκB, c-Jun, and p38 downstream signal pathways activation. Therefore, 4-1BB and 4-1BBL are recently used for the immunotherapy of cancer.
Form	Lyophilized
Bio-activity	Measure by its ability to induce IL-8 secretion in human PBMCs. The ED50 for this effect is 1-5 ng/mL.
Molecular Mass	The protein has a calculated MW of 20.4 kDa.

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	The protein migrates as 20 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>95% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	TNFSF9 tumor necrosis factor (ligand) superfamily, member 9 [Homo sapiens (human)]
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;

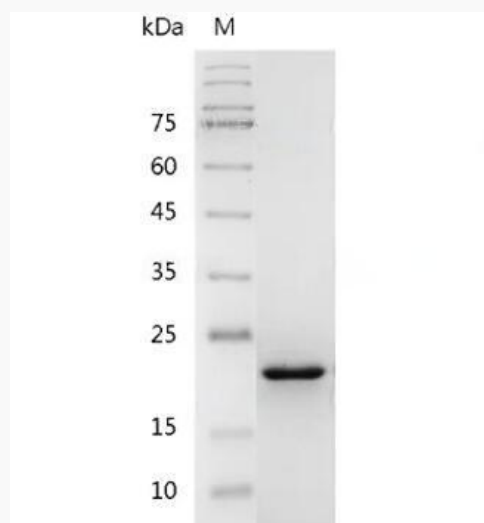
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Gene ID	8744
mRNA Refseq	NM_003811
Protein Refseq	NP_003802
MIM	606182
UniProt ID	P41273

**SDS-PAGE analysis
of recombinant
human 4-1BBL.**



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