

Mouse 4-1BB Ligand/TNFSF9 Protein, Ultra Low Endotoxin



Cat. No. BBL-MM241-UL

Description	
Source	Recombinant Mouse 4-1BB Ligand/TNFSF9 Protein is expressed from HEK293 with hFc tag at the C-terminus. It contains Arg104-Glu309.
Accession	NP_033430
Molecular Weight	The protein has a predicted MW of 49.7 kDa. Due to glycosylation, the protein migrates to 65-75 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.001 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
The 4-1BBL is the high affinity ligand of 4-1BB, also known as CD137L or TNFSF9. 4-1BB ligand (4-1BBL) is an inducible molecule present on several APC types, including B cells, macrophages and DCs.4-1BB:4-1BBL pathway seems to amplify the existing costimulatory signals, even if the engagement of 4-1BB in the presence of a strong TCR signaling can induce IL-2 production in a CD28-independent manner.	

Assay Data

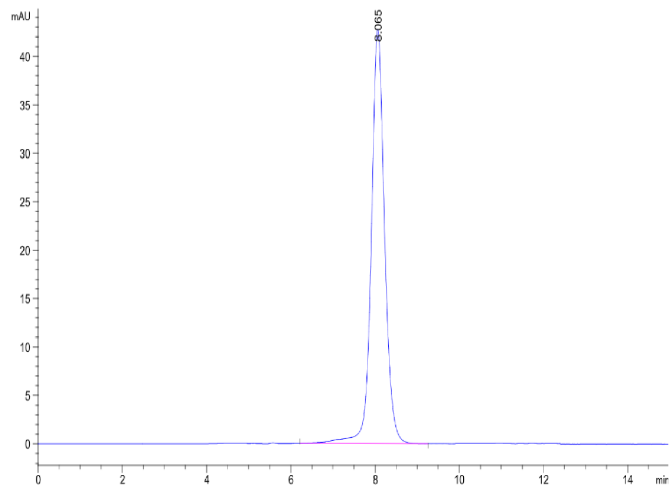
Bis-Tris PAGE



Mouse 4-1BB Ligand on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

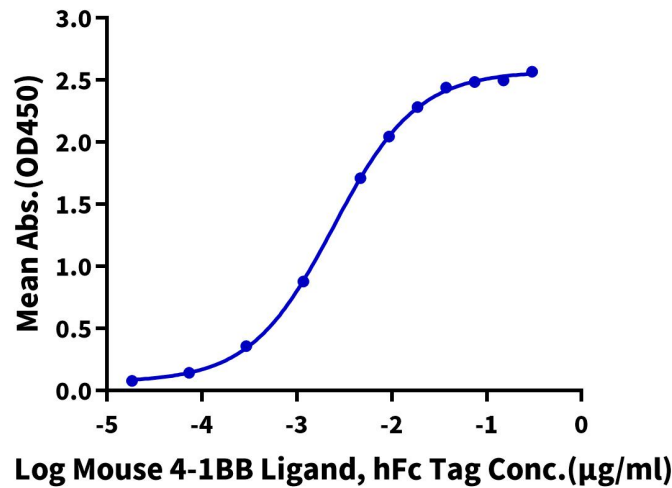
Assay Data



The purity of Mouse 4-1BB Ligand is greater than 95% as determined by SEC-HPLC.

ELISA Data

Mouse 4-1BB Ligand, hFc Tag ELISA
0.1µg Mouse 4-1BB, His Tag Per Well



Immobilized Mouse 4-1BB, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Mouse 4-1BB Ligand, hFc Tag with the EC50 of 2.4ng/ml determined by ELISA (QC Test).