Biotinylated Human 4-1BB Ligand/TNFSF9 Trimer Protein (Primary Amine Labeling)

Cat. No. BBL-HM241B

Description

Source	Recombinant Biotinylated Human 4-1BB Ligand/TNFSF9 Trimer Protein (Primary Amine Labeling) is expressed from HEK293 with Flag tag and monomeric hFc tag at the N-Terminus.
	It contains Arg71-Glu254 trimer design.
Accession	P41273
Molecular Weight	The protein has a predicted MW of 84.3 kDa same as Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 90% as determined by HPLC

Formulation and Storage

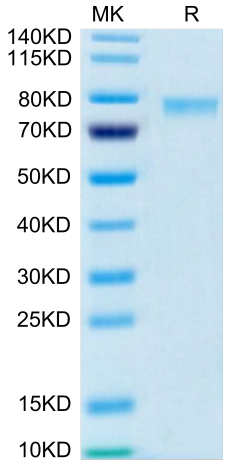
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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.

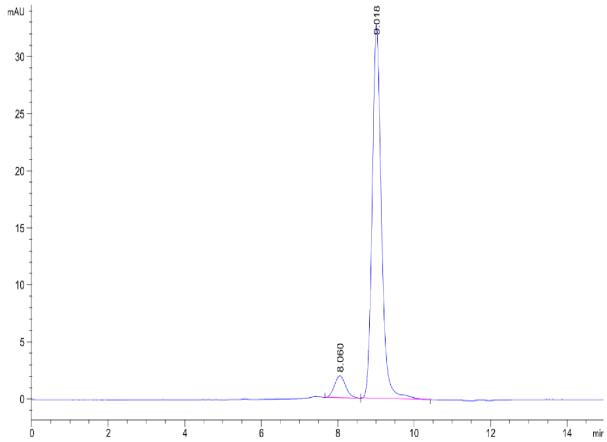
Assay Data

Bis-Tris PAGE



Biotinylated Human 4-1BB Ligand (Trimer) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Biotinylated Human 4-1BB Ligand (Trimer) is greater than 90% as determined by SEC-HPLC.

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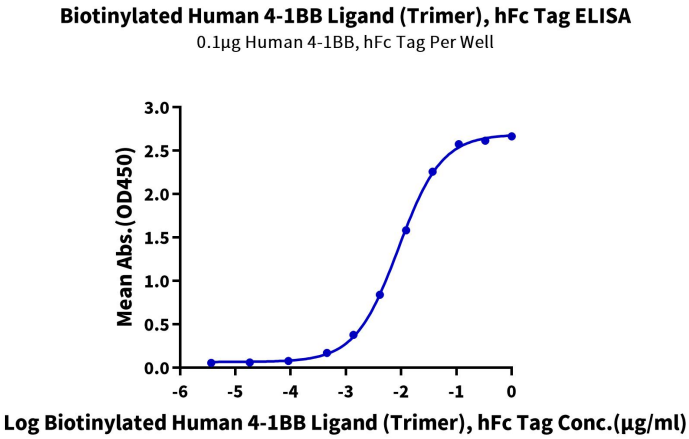
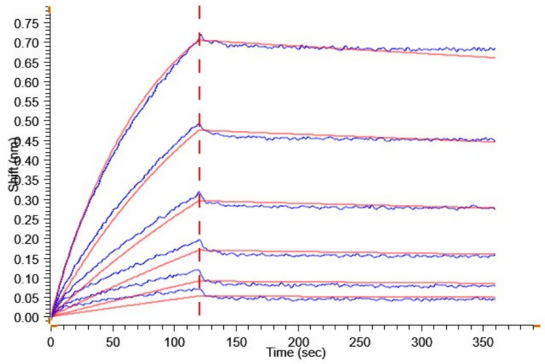
Assay Data

ELISA Data



Immobilized Human 4-1BB, hFc Tag at 1μg/ml (100μl/Well) on the plate. Dose response curve for Biotinylated Human 4-1BB Ligand (Trimer), hFc Tag with the EC50 of 9.0ng/ml determined by ELISA.

BLI Data



Loaded Biotinylated Human 4-1BB Ligand (Trimer), monomeric hFc Tag on Streptavidin-Biosensor can bind Human 4-1BB, hFc Tag with an affinity constant of 2.19 nM as determined in BLI assay (Gator® Prime).