For Research Use Only Recombinant Human 4-1BB Ligand/TNFSF9 protein (hFc Tag)



Catalog Number: Eg0079

Basic Information	Species: Human	Purity: >95 %, SDS-PAGE	Tag: hFc Tag
	EC50: 6-24 ng/mL		
Technical Specifications	Purity: >95 %, SDS-PAGE		
	Endotoxin Level: <0.1 EU/ μ g protein, LAL method		
	Source: HEK293-derived Human 4-1BB Ligand protein Arg71-Glu254 (Accession# P41273) with a human IgG1 Fc tag at the N-terminus.		
	GenelD: 8744		
	Accession: P41273		
	Predicted Molecular Mass: 45.4 kDa		
	SDS-PAGE: 45-50 kDa, reducing (R) conditior	IS	
	Formulation: Lyophilized from 0.22 µm filtere protectants before lyophilization	ed solution in PBS, pH 7.4. Norma 1.	lly 5% trehalose and 5% mannitol are added as
Biological Activity	Immobilized Human 4-1BB (Myc tag, His tag) at 0.5 μ g/mL (100 μ L/well) can bind Human 4-1BB Ligand (hFc tag) with a linear range of 6-24 ng/mL.		
Storage and Shipping	Storage: It is recommended that the prote	in be aliquoted for optimal stor	age. Avoid repeated freeze-thaw cycles.
	 Until expiry date, -20°C t 3 months, -20°C to -80°C 	to -80 $^\circ\!\!\!\!\!^\circ$ as lyophilized proteins. Under sterile conditions after r	econstitution.
	Shipping: The product is shipped at ambier temperature.	nt temperature. Upon receipt, sto	ore it immediately at the recommended
Reconstitution	Briefly centrifuge the tube befor	e opening. Reconstitute at 0.1-0	9.5 mg/mL in sterile water.
Background	TNFSF9 (Tumor necrosis factor ligand superfamily member 9) is also known as 4-1BBL (4-1BB ligand) or CD137L. TNFSF9 is a type 2 transmembrane glycoprotein receptor that is found on APCs (antigen presenting cells). TNFSF9 is expressed on activated T Lymphocytes. The TNFSF9/4-1BB complex with the help of T-cell receptor signals can trigger the increase in CD28- T cells and inhibit tumor growth. The interaction between 4-1BB and TNFSF9 provides costimulatory signals to T cells, which can be used to cancer immunotherapy.		
References	1.Jacob Bukczynski. et al. (2003). f 2.Adam T C Cheuk. et al. (2004). Ca 3.Chao Wang. et al. (2009). Immur 4.Dass S Vinay. et al. (2012). Mol C 5.Cariad Chester. et al. (2018). Blo	Eur J Immunol. 33(2): 446-54. Incer Gene Ther. 11(3): 215-26. Iol Rev. 229(1): 192-215. ancer Ther. 11(5): 1062-1070. Iod. 131(1): 49-57.	
Synonyms	4-1BB Ligand/TNFSF9, TNFSF9, 4 1	BB L, 4 1BB ligand, 4 1BBL	

Selected Validation Data





Purity of Recombinant Human 4-1BB Ligand was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

Immobilized Human 4-1BB (Myc tag, His tag) at 0.5 μ g/mL (100 $\,\mu$ L/well) can bind Human 4-1BB Ligand (hFc tag) with a linear range of 6-24 ng/mL

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.