CHAMOT

Recombinant 4-1BBL, Human, Animal-Free

CM085-5HP

CM085-20HP

CM085-100HP

CM085-500HP

CM085-1000HP





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Product Datasheet

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Catalog#	CM085-5HP	CM085-20HP	CM085-100HP	CM085-500HP	CM085- 1000HP
Size	5 ug	20 ug	100 ug	500 ug	1 mg

Product Specifications

Background	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.	
Synonyms	4-1BB ligand, CD137L, TNLG5A, TNFSF9, Tumor necrosis factor ligand superfamily member 9	
Uniprot ID	P41273	
Molecular Weight	The protein has a calculated MW of 20.4 kDa. The protein migrates as 20 kDa under reducing condition (SDS-PAGE analysis).	
Expression System	Escherichia coli	
Purity	>95% as determined by SDS-PAGE.	
Activity	Measure by its ability to induce IL-8 secretion in human PBMCs. The ED $_{50}$ for this effect is 1-5 ng/mL.	
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.	
Protein Sequence	MREGPELSPDDPAGLLDLRQGMFAQLVAQNVLLIDGPLSWYSDPGLAGVSLTGGLSYKEDT KELVVAKAGVYYVFFQLELRRVVAGEGSGSVSLALHLQPLRSAAGAAALALTVDLPPASSEA RNSAFGFQGRLLHLSAGQRLGVHLHTEARARHAWQLTQGATVLGLFRVTPEIPAGLPSPRS E with polyhistidine tag at the C-terminus.	
Form	The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.	

Product Note

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 100 μ g/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Storage/Shipping

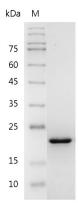
Stability & Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Shipping

Blue Ice

Scientific Data



SDS- PAGE analysis of recombinant human 4-1BBL

For Research Use or Further Manufacturing Only

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