

CHAMOT

Recombinant 4-1BBL, Human, GMP

CM085-100HPG

CM085-1000HPG



CHAMOT

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CONTENT

1 Product Specifications

2 Product Note

3 Storage/Shipping

4 Scientific Data

Recombinant 4-1BBL, Human, GMP

Catalog#	CM085-100HPG	CM085-1000HPG
Size	100 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 analysis.

Activity Measure by its ability to induce IL-8 secretion in human PBMCs. The ED₅₀ for this effect is 1-5 ng/mL.

Endotoxin Level <0.05 EU per 1 µg of the protein by the LAL method.

Protein Sequence MREGPELSPDDPAGLLDLRQGMFAQLVAQNVLLIDGPLSWYSDPGLAGVSLTGGLSYKEDT KELVVAAGVYVFFQLELRRVAGEGSGSVSLALHLQLRSAAGAAALALTVDLPPASSEARNSAFGFQGRLLHLSAGQRLGVHLHTEARARHAWQLTQGATVLGLFRVTPEIPAGLPSPRSE with polyhistidine tag at the C-terminus.

Form Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Product Note

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 0.5 mg/mL and incubate the stock solution at RT for at least 20 min to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Storage/Shipping

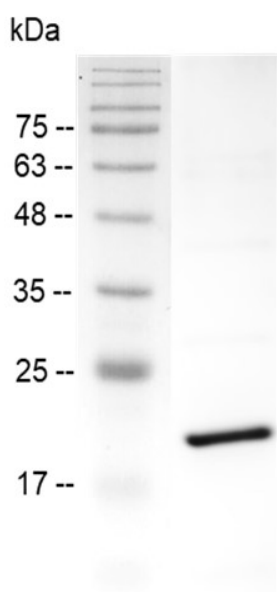
Stability & Storage

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 GMP human 4-1BBL

For Research Use or Further Manufacturing Only

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