

# CHAMOT

**Recombinant 4-1BBL, Human, GMP**

CM085-100HPG

CM085-1000HPG



CHAMOT

乔默®生物

*Specialize In Cytokines*



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## 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 ED<sub>50</sub> 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 KELVAKAGVYYVFFQLELRRVAGEGSGSVSLALHLQPLRSAAGAAALALTVDLPASSEARNSAFGFQGRLLHLSAGQRLGVHLHTEARARHAWQLTQGATVLGLFRVTPEIPAGLPSPRS E 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 H<sub>2</sub>O 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

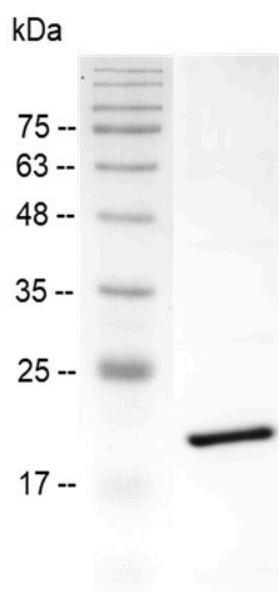
### Stability & Storage

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

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