

Biotinylated Mouse CDCP1 Protein

Cat. No. CDC-MM401B

Description

Source	Recombinant Biotinylated Mouse CDCP1 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Arg25-Ala667.
Accession	Q5U462
Molecular Weight	The protein has a predicted MW of 75.3 kDa. Due to glycosylation, the protein migrates to 80-100 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Tumor metastasis depends on the dynamic regulation of cell adhesion through β 1-integrin. The Cub-Domain Containing Protein-1, CDCP1, is a transmembrane glycoprotein which regulates cell adhesion. Overexpression and loss of CDCP1 have been observed in the same cancer types to promote metastatic progression.

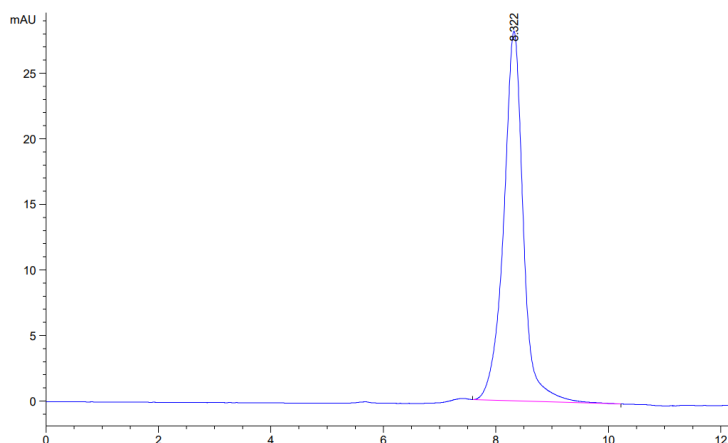
Assay Data

Tris-Bis PAGE



Biotinylated Mouse CDCP1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

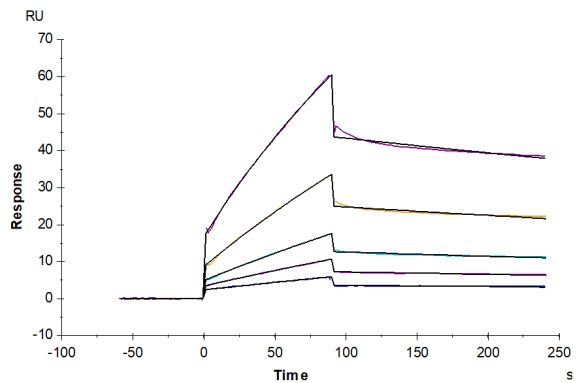
SEC-HPLC



The purity of Biotinylated Mouse CDCP1 is greater than 95% as determined by SEC-HPLC.

SPR Data

Assay Data



Anti-CDCP1 Antibody captured on CM5 Chip via Protein A can bind Biotinylated Mouse CDCP-1, His Tag with an affinity constant of 0.45 μM as determined in SPR assay (Biacore T200).