

Recombinant Mouse CDCP1

Catalog Number: 9688-CU

	PTI	

Source Mouse myeloma cell line, NS0-derived

Arg25-Ala667, with a C-terminal 6-His tag

Accession # Q5U462

N-terminal Sequence Arg25 & Ser30

Analysis

Predicted Molecular 73 kDa

Mass

CDE	210	O A	τ_{i}	NIC
SPE		UA	шО	10.5

SPECIFICATIONS		
SDS-PAGE	90-108 kDa, reducing conditions	
Activity	Bioassay data are not available.	
Endotoxin Level	<1.0 EU per 1 μg of the protein by the LAL method.	
Purity	>90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.	

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 250 µg/mL in PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	
	 12 months from date of receipt, -20 to -70 °C as supplied. 	
	 1 month, 2 to 8 °C under sterile conditions after reconstitution. 	
	 3 months, -20 to -70 °C under sterile conditions after reconstitution. 	

Bioactivity not tested



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BACKGROUND

CDCP1 (CUB-domain containing protein 1; also known as CD318 and SIMA135) is a novel, 135 kDa cell surface glycoprotein that is found on tumor, stem cells, keratinocytes and colonic epithelial cells (1). It is reported that this protein is over-expressed in colon and lung cancers. CDCP1 is a type I transmembrane (TM) protein that is involved with cell adhesion. Mouse CDCP1 is synthesized as an 833 amino acid (aa) precursor. It contains an extracellular region with three CUB domains (aa 30-667) and a phosphotyrosine site at Tyr731. The phosphorylation state of CDCP-1 has an effect on anchorage in epithelial cells (2). When unligated, CDCP1 can be proteolytically cleaved between aa 270-300. This generates an 80 kDa TM protein that may be missing the N-terminal CUB domain (aa 221-350) (3). Over aa 25-667, mouse CDCP1 is 83% and 92% aa identical to human and rat CDCP1, respectively.

- Hooper, J.D. et al. (2003) Oncogene 22:1783.
- Spassov, D.S. et al. (2013) Cancer Res. 73:1168. 2.
- He, Y. et al. (2010) J. Biol. Chem. 285:26162.

Rev. 2/6/2018 Page 1 of 1

