

Recombinant Human MUC-1/CD227 Protein

Catalog No.: RP00129 **Recombinant** **1 Publications**

Sequence Information

Species	Gene ID	Swiss Prot
Human	4582	P15941-11

Tags

C-hFc&His

Synonyms

ADMCKD;ADMCKD1;CA15-3;CD227;EMA;H23AG;KL-6;MAM6;MCD;MCKD;MCKD1;MUC-1;MUC-1/SEC;MUC-1/X;MUC1/ZD;PEM;PEMT;PUM;MUC1;CA15-3;Mucin-1; ADMCKD; ADMCKD1; CA15-3; CD227; EMA; H23AG; KL-6; MAM6; MCD; MCKD; MCKD1; MUC-1; MUC-1/SEC; MUC-1/X; MUC1/ZD; PEM; PEMT; PUM; CA15-3; mucin-1

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
44.68 kDa	56-75 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

Background

The protein is a membrane-bound protein that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. These proteins also play a role in intracellular signaling. This protein is expressed on the apical surface of epithelial cells that line the mucosal surfaces of many different tissues including lung, breast stomach and pancreas. This protein is proteolytically cleaved into alpha and beta subunits that form a heterodimeric complex. The N-terminal alpha subunit functions in cell-adhesion and the C-terminal beta subunit is involved in cell signaling. Overexpression, aberrant intracellular localization, and changes in glycosylation of this protein have been associated with carcinomas.

Basic Information

Description

Recombinant Human MUC-1/CD227 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Met1-Gly167) of human Mucin-1/MUC-1 (Accession #NP_001018016.1) fused with an Fc, 6×His tag at the C-terminus.

Bio-Activity

Measured by its ability to increase beta-catenin levels in the cytoplasm and nucleus of HCT116 human colon adenocarcinoma cells. 0.01-1 ng/mL of Recombinant Human MUC-1 can effectively increase beta-catenin levels.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

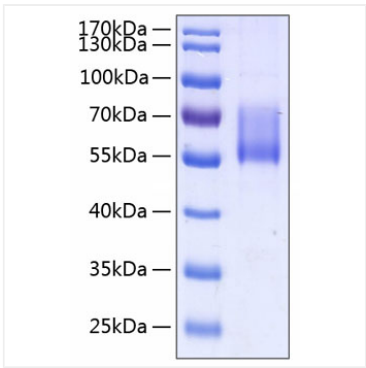
Avoid repeated freeze/thaw cycles.

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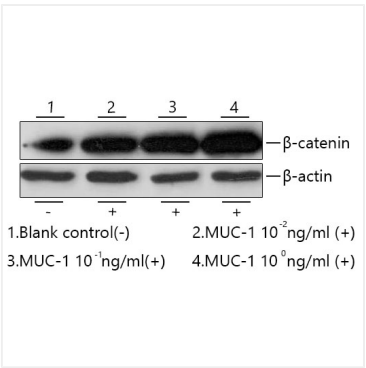
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Validation Data



Recombinant Human MUC-1/CD227 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human MUC-1 Protein increases beta-catenin levels in the cytoplasm and nucleus of HCT116 human colon adenocarcinoma cells. 0.01-1ng/mL of Recombinant Human MUC-1 can effectively increase beta-catenin levels.