Recombinant Human MUC-1/CD227 Protein

Catalog No.: RP00129

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Sequence Information

Species
Human

Gene ID
4582

Swiss Prot
P15941-11

Tags
C-hFc&His

Synonyms
ADMCKD,ADMCKD1,CA 15-3, 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, CA 15-3, 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
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
44.68 kDa

Observed MW
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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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.

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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

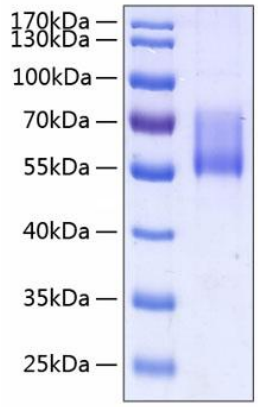
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

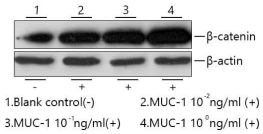
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Validation Data



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.