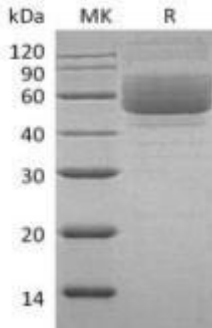


Recombinant Human Mucin-1

Catalog#:P00857 Derived from Human Cells

DESCRIPTION	<p>Recombinant Human Mucin- 1 is produced by our Mammalian expression system and the target gene encoding Ala23-Gly167 is expressed with a Fc tag at the C-terminus.</p> <p>Accession#: P15941-11</p> <p>Known as: Mucin- 1; MUC- 1; Breast carcinoma-associated antigen DF3; Cancer antigen 15-3; CA15-3; Carcinoma-associated mucin; Episialin; H23AG; Krebs von den Lungen-6; KL-6; PEMT; Peanut- reactive urinary mucin; PUM; Polymorphic epithelial mucin; PEM; Tumor-associated epithelial membrane antigen; EMA; Tumor-associated mucin; CD227; MUC1</p>
FORMULATION	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
SHIPPING	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
STORAGE	<p>Lyophilized protein should be stored at <-20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>
RECONSTITUTION	<p><i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</i></p> <p><i>It is not recommended to reconstitute to a concentration less than 100μg/ml.</i></p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
QUALITY CONTROL	<p>Mol Mass:42.3kDa AP Mol Mass:45-88kDa, reducing conditions.</p> <p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.</p>
BACKGROUND	<p>Mucin-1, 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. MUC-1 exclusively located in the apical domain of the plasma membrane of highly polarized epithelial cells. MUC-1 can act both as an adhesion and an anti-adhesion protein. This protein may provide a protective layer on epithelial cells against bacterial and enzyme attack. MUC- 1 participated in modulates signaling in ERK, SRC and NF-kappa- B pathways. In activated T-cells, MUC-1 influences directly or indirectly the Ras/MAPK pathway. MUC-1 promotes tumor progression and regulates TP53-mediated transcription and determines cell fate in the genotoxic stress response.</p>
SDS-PAGE	 <p>The SDS-PAGE gel shows two lanes, MK and R. The R lane contains a single prominent band at approximately 60 kDa, corresponding to the expected molecular weight of the recombinant protein. The MK lane shows no significant bands, serving as a control. Molecular weight markers are indicated on the left at 120, 90, 60, 40, 30, 20, and 14 kDa.</p>