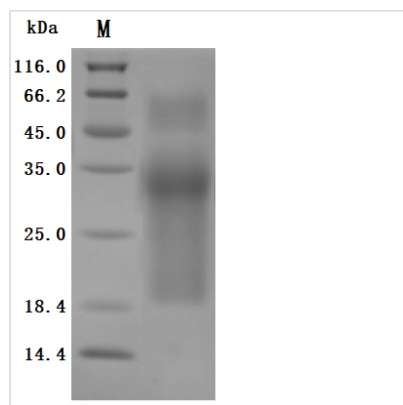


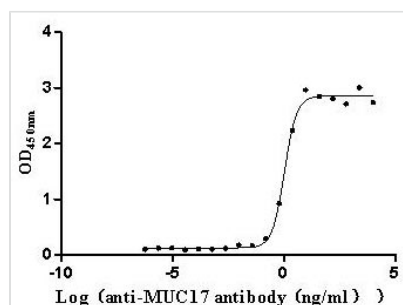


Recombinant Human Mucin-17 (MUC17), partial (Active)

Product Code	CSB-MP727848HU
Abbreviation	Recombinant Human MUC17 protein, partial (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q685J3
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human MUC17 at 2 µg/mL can bind Anti-MUC17 recombinant antibody (CSB-RA727848MA1HU), the EC50 is 0.9057-1.259 ng/mL.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	RTTTCFGDGCQNTASRCKNGGTWDGLKCQCPNLYYGELCEEVSSIDIGPPE TISAQMELTVTVTSVKFTEELKNHSSQEFQEFKQTFTEQMNIVYSGIPEYVGVN ITKLRLGSVVVEHDVLLRTKYTPYKTVLDNATEVVKEKITKVTTQQIMINDICSD MMCFNTTGTQVQNITVTQYDPEEDCRKMAKEYGDYFVVEYRDQKPYCISPCE PGFSVSKNCNLGKCQMSLSGPQCLCVTTETHWYSGETCNQGTQKSL
Research Area	other
Source	Mammalian cell
Target Names	MUC17
Expression Region	4131-4390aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 10xHis-tagged
Mol. Weight	32.0kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity
Measured by its binding ability in a functional ELISA. Immobilized Human MUC17 at 2 µg/mL can bind Anti-MUC17 recombinant antibody (CSB-RA727848MA1HU), the EC₅₀ is 0.9057-1.259 ng/mL.

Description

This Human MUC17 (Mucin-17) recombinant protein was produced in mammalian cell, where the gene sequence encoding human MUC17 (4131-4390aa) was expressed with the C-terminal 10xHis tag. The purity of this MUC17 protein was greater than 95% by SDS-PAGE. The activity was tested.

As a newly discovered mucin, MUC17 (Mucin-17) belongs to the membrane-bound mucin family. Mucins are highly O-glycosylated linear glycoproteins secreted by higher organisms to protect and lubricate epithelial cell surfaces and are involved in the regulation of immune responses, inflammation, adhesion, and tumorigenesis. MUC17 is present in epithelial cells in specific human tissues. Its functions in epithelial cells are primarily to provide cytoprotection, maintain luminal architecture, signal transduction, and confer anti-adhesion properties to cancer cells that have lost apical/basolateral polarization. The biological function of MUC17 is thought to be to maintain the integrity of the mucosal barrier in the gut, such as mucosal restoration.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.