Human Mucin-13 Protein

Cat. No. MUC-HM113

Description

Source	Recombinant Human Mucin-13 Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Thr19-Leu421.
Accession	Q9H3R2
Molecular Weight	The protein has a predicted MW of 44.19 kDa. Due to glycosylation, the protein migrates to 75-110 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 90% as determined by HPLC

Formulation and Storage

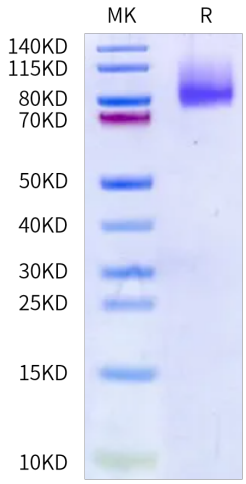
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Mucin 13 (MUC13) is a high-molecular-weight transmembrane glycoprotein that is frequently and aberrantly expressed in a variety of epithelial carcinomas, including gastric, colorectal, and ovarian cancers. MUC13 exhibits the characteristics suitable as an early marker for cancer screening and presents a promising target for antibody-guided targeted therapy.

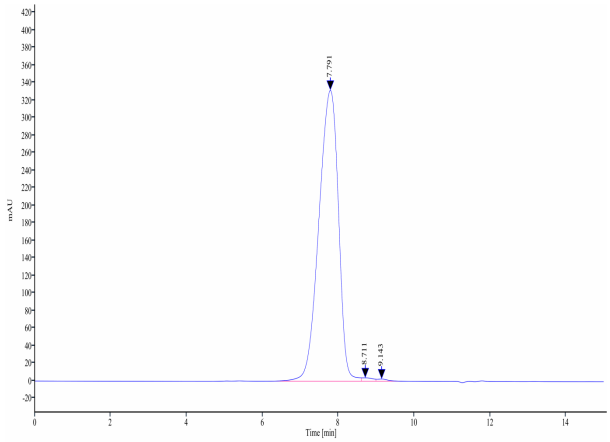
Assay Data

Bis-Tris PAGE



Human Mucin-13 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



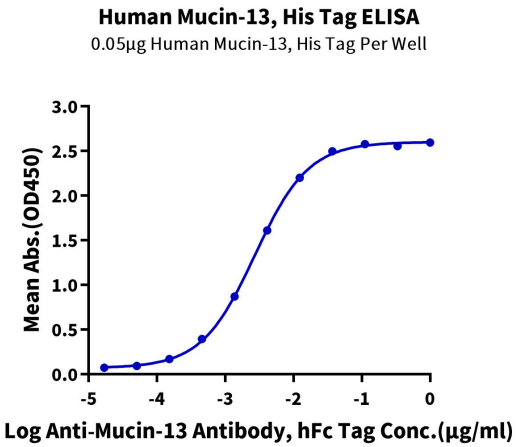
The purity of Human Mucin-13 is greater than 90% as determined by SEC-HPLC.

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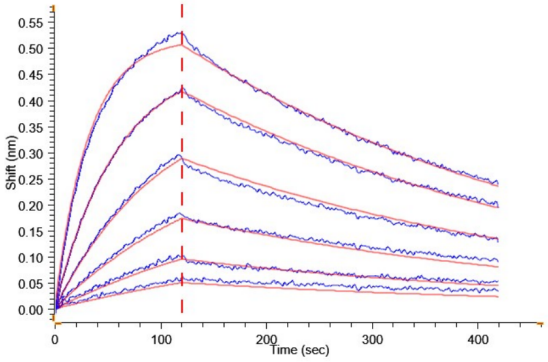
Assay Data

ELISA Data



Immobilized Human Mucin-13, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-Mucin-13 Antibody, hFc Tag with the EC50 of 2.7ng/ml determined by ELISA.

BLI Data



Loaded Anti-Mucin-13 Antibody, hFc Tag on Streptavidin-Biosensor can bind Human Mucin-13, His Tag with an affinity constant of 8.81 nM as determined in BLI assay.

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