

For Research Use Only

Recombinant Human MUC1/CA15-3 protein (hFc Tag)



Catalog Number: Eg1039

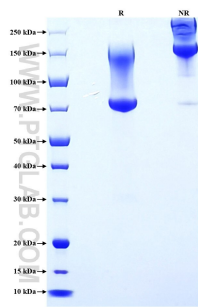
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: hFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/µg protein, LAL method Source: HEK293-derived Human MUC1 protein Ser24-Ser380 (Accession# P15941-1) with a human IgG1 Fc tag at the C-terminus. GeneID: 4582 Accession: P15941-1 Predicted Molecular Mass: 61.2 kDa SDS-PAGE: 70-80 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	MUC1, also known as CA15-3, is a type I transmembrane glycoprotein expressed by various epithelial cells of the female reproductive tract, lung, breast, kidney, stomach, and pancreas. MUC1 is transcribed as a large precursor gene product, and upon translation, is cleaved in the endoplasmic reticulum, yielding two subunits: the large extracellular N-terminal subunit (MUC1-N, about 120-200 kDa) and the small cytoplasmic C-terminal subunit (MUC1-C, about 23-30 kDa). Among the known mucins, MUC1 is best studied and plays crucial roles in regulating many cellular properties, including cell proliferation, apoptosis, adhesion, and invasion. MUC1 is overexpressed in a wide range of human epithelial malignancies.		
References	1. SJ Gendler, et al. (1995) Annu Rev Physiol. 57:607-34. 2. Pankaj K Singh, et al. (2006) Trends Cell Biol. 16(9):467-76. 3. Ming-Kwang Shyu, et al. (2008) Biol Reprod. 79(2):233-9. 4. Sritama Nath, et al. (2014) Trends Mol Med. 20(6):332-42. 5. Guang Wu, et al. (2018) Theranostics. 8(1):78-91.		
Synonyms	CA153, CA15-3, MUC1, Breast carcinoma-associated antigen DF3, CA 15-3		

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Human MUC1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.