

## MUC1

### Native Human CA 15-3 protein

<b>Catalog No.</b>	CSI12528	<b>Quantity:</b>	25 kU
<b>Alternate Names:</b>	CD227, EMA, MUC-1		
<b>Description:</b>	<p>The MUC-1 glycoprotein is routinely monitored in the management of breast cancer. Diagnostic tests measuring the MUC1- glycoprotein are FDA/EU approved including Ca15-3, Ca27.29 and Br assays. Reoccurrence detection of breast cancer by MUC-1 assay can preceed confirmation by radiological detection methods by 1-9 months. Although there have been numerous other breast cancer related biomarkers discovered and clinically investigated, no single protein has been proven to have greater specificity or sensitivity than Ca15-3. Automation of immunoassays for this molecule has for several years now provided precise and reliable post therapy results. High MW mucin –like glycoprotein of 300-450 kD due to variable glycosylation on the MUC-1 molecule has distinct epitopes identified by monoclonal antibodies, notably DF3, 115D8 and CA27.29. Increased levels of the MUC-1 protein is associated with breast and less specifically with lung, colon and hepatic tumors. Approved clinical use is for monitoring breast cancer post therapy and early detection of relapsed breast cancer.</p>		
<b>Concentration:</b>	9,978 U/mL (by Elecsys Ca 15-3 immunoassay)		
<b>Volume:</b>	2.50 mL		
<b>Gene ID:</b>	4582		
<b>UniProtKB:</b>	P15941		
<b>Source:</b>	Cell culture supernatant, human ductal breast adenocarcinoma cell line		
<b>Formulation:</b>	Supplied as a filtered solution in PBS, pH 7.4, 0.1% sodium azide.		
<b>Contaminants:</b>	<p>This partially purified product contains contaminants.</p> <p>CA-19-9: 61.64 U/mL (0.62%)</p> <p>CA 125: 271.0 U/mL (2.72%)</p> <p>CEA: 625.2 ng/mL (6.27%)</p> <p>CA 72-4: 28.89 U/mL (0.29%)</p> <p>NSE: 40.06 ng/mL (0.40%)</p>		
<b>Total Protein:</b>	U/mL/OD280nm (relative purity ratio) = 329 U/mL/OD		
<b>Applications:</b>	Controls can be used to make standards, calibrators and single analyte controls		
<b>Storage &amp; Stability:</b>	Store at 4 °C short term, for long term store at -20 °C . <b>Avoid repeated freeze-thaw cycles.</b>		
<b>Statement:</b>	Cell culture supernatant tested non-reactive for anti-HIV 1/2, anti-HCV, HIV Ag and HBsAg by by Nucleic Acid Test (NAT) per FDA approved methods.		

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