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MUC1 Human

Mucin-1 (CA15-3) Human
NTP0042

Product Overview

Name	MUC1 Human

Description

Mucin-1 (CA15-3) Human

Introduction

Human Mucin-1 (CA15-3), aka MUC1, is a glycoprotein with extensive O-linked glycosylation of its extracellular domain. This protein has alpha and beta subunits that form a heterodimeric complex. The N-terminal alpha subunit roles in cell-adhesion and the C-terminal beta subunit is involved in cell signaling. Mucins line the apical surface of epithelial cells in the stomach, lungs, intestines, eyes and other tissues. Mucins protect the body from infection by pathogen binding to oligosaccharides in the extracellular domain, preventing the pathogen from reaching the cell surface. Overexpression of CA15-3 is often associated with colon, breast, ovarian, lung and pancreatic cancers.

Source

Human carcinoma cell line.

Physical Appearance

Clear to opalescent colorless frozen solution.

Formulation

MUC1 is supplied in a 0.05M sodium phosphate buffer, pH 7.5, 0.09% NaN3 and 0.15M NaCl.

Stability

Human MUC1 although stable at 4°C for 1 week, should be stored at -20°C.

Purity

Greater than 60%.

Human Virus Test

Tissue sample tested and found negative for HIV-1 & 2 antibodies, HBsAg, and Hepatitis-C antibodies, Syphilis and HIV/HBV/HCV NAT.

Precautions

MUC1 Human is for research use only and not for use in diagnostic or therapeutic procedures.