

Native Bovine MUC1 Protein

Cat. No. MUC1-135B **Lot. No.** (See product label)

SPECIFICATION

Product Overview Native Bovine MUC1 was purified from Bovine Submaxillary Gland.

Species Bovine

Source Bovine Submaxillary Gland

Description

Mucins are glycoproteins abundant with O-linked oligosaccharides secreted by epithelial mucous membranes. Their protective function is due to their high viscosity. Bovine submaxillary mucin has a molecular weight of 4 - 40 X 10⁵ daltons. The molecule consists of major and minor components with a protein moiety (36.6% of the molecule) and a carbohydrate moiety (56.7% of the molecule). Mucins are the glycoproteins in epithelial mucous secretions; their protective function is due to their high viscosity. Svennerholm (1963) describes the preparation of sialic acids from mucin. Tettamanti and Pigman (1968) separated BSM into major and minor components and determined the amino acids of the protein moiety (36.6% of the molecule). Besides sialic acid and N-acetyl-galactosamine they reported small amounts of fructose and galactose. Bettelheim et al. (1972) report the carbohydrate content to be 56.7% and the molecular shape to be that of a stiff rod. Downs and Pigman (1969) and Pigman et al. (1973) suggest the possibility of a repeating glycopeptide structure.

Form

A dry powder prepared by the method of Nisizawa, K., and Pigman, W.: Arch. Oral. Biol., 1, 161 (1959). Suitable as a substrate for neuraminidase.

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Molecular Mass	400,000 (Downs and Pigman 1969). 4,000,000 by light-scattering (Bettelheim et al. 1962).
Notes	Protect from moisture.
Storage	Stable indefinitely at 2 - 8 centigrade. Protect from moisture.

GENE INFORMATION

Gene Name	MUC1 mucin 1, cell surface associated [Bos taurus]
Official Symbol	MUC1
Synonyms	mucin; MUC-1; mucin 1, transmembrane
Gene ID	281333
mRNA Refseq	NM_174115
Protein Refseq	NP_776540
UniProt ID	Q8WML4

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