IsoSep AB

Specialists in Carbohydrates and Glycoconjugates

Data sheet

75/50 A^+ -Porcine Submaxillary Mucin (PSM^+)

75/51 A^- -Porcine Submaxillary Mucin (PSM^-)

Source: Porcine submaxillary glands

Isolation: Isolated from glands that are typed for their blood group A+ or A- phenotype by standard serological methods. The mucins are prepared as described in ref 1. The mucins have been treated with 0.1 M trifluoroacetic acid at 100 °C for 1h, which removes all sialic acid and most of the fucose.

Composition: Information on the structures of the carbohydrate chains on A+ and A- mucins are given in ref 2.

Use: Use the mucins as acceptors for the following glycosyltransferases:

CMP-Neu5Ac:Galb1-3GalNAca-R/α(2-3)-sialyltransferase (EC 2.4.99.4)
UDP-GlcNAc:Galβ1-3GalNAcα-R/β(1-6)-N-acetylglucosaminyltransferase (EC 2.4.1.102)
GDP-Fuc:Galβ1-3GalNAcα-R/α(1-2)-fucosyltransferase (EC 2.4.1.69)

Add water or buffer and allow to dissolve over night.

Storage: 0-5 °C

References

1. De Salegui M, Plonska, H (1969) Arch Biochem Biophys 129(1):49-56.
2. van Halbeek H, Dorland L, Haverkamp J, Veldink G, Vliegenthart JFG, Fournet B, Ricart G, Montreuil J, Gathmann WD, Aminoff D (1981) Eur J Biochem 118 (3):487-495.
3. Carlson DM, (1968) J. Biol. Chem. Vol. 243 (3): 616-626.

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