

CERTIFICATE OF ANALYSIS

GENERAL INFORMATION

Product No.: GP100084

CAS No.: NA

Product Name: MUC5AC-Tn(12)

Sequence: GTTPSPVPTTST(Tn)TSAP-NH₂, Tn = α -GalNAc, trifluoroacetate salt^{1,2,3}

Glycosylation: O- α -GalNAc

Description: Synthetic, glycopeptide Mucin-5 peptide fragment from Gly4221 to Ala4235. Pro was added on C-terminal to make an analogue of MUC-5 (16 AA in total). The MUC5AC gene, which is mainly expressed in gastric and respiratory mucosae, exhibits 8 amino acid tandemly repeated domain, TTSTTSAP.⁴ O-glycosylation α -GalNAc is at position Thr4232. The C- terminus is amide.

Formula: C₇₁H₁₁₈N₁₈O₃₀

Mol. Wt.: 1703.80

Exact Mass: 1702.83

CHARACTERIZATION

PROPERTY

TEST RESULT

Appearance / Physical State

White, lyophilized solid

Purity (>90% via HPLC)

Conforms, 97%

Mass Spectrometry (ESI -POS)

Conforms, [M+H]⁺ = 1704.8
 [M+2H]²⁺ = 852.9
 [M+Na+H]²⁺ = 863.8
 [2M+3H]³⁺ = 1136.9

BATCH INFORMATION

Lot Number:

XXXXXX

Date Prepared:

XXXXXX

NOTES

1. Store as lyophilized powder -20 ± 5 °C.
2. Keep dry. Allow container and contents to rise to room temperature before opening.
3. Avoid storing peptide solutions. If necessary, freeze peptide solutions.
4. Ten Hagen, K. et al. *J. Biol. Chem.* **277**, 22616 (2002); Van Klinken, B. et al. *Am. J. Physiol. Gastrointest. Liver Physiol.* **276**, G115 (1999); Ten Hagen, K. et al. *Glycobiol.* **13**, 1R (2003).