

**CERTIFICATE OF ANALYSIS**

**GENERAL INFORMATION**

**Product No.:** GP100072

**CAS No.:** N/A

**Product Name:** MUC1(126-149)-Tn(139,144) Glycopeptide

**Sequence:** PAPGSTAPPAHGVT( $\alpha$ -GalNAc)SAPDT( $\alpha$ -GalNAc)RPAPG-OH trifluoroacetate salt <sup>1,2,3</sup>

**Glycosylation:** O- $\alpha$ -D-GalNAc

**Description:** MUC1 synthetic glycopeptide. Glycosylated Mucin-1 (MUC1) peptide fragment containing amino acid sequence Pro126–Gly149 (24 AA in length) from the tandem repeat (TR) region of the MUC1 protein. Tumour-associated cancer antigen (TACA), Tn antigen. O-glycosylation ( $\alpha$ -GalNAc) at Thr139 and Thr144. The C-terminus is carboxylic acid.

**Formula:** C<sub>111</sub>H<sub>175</sub>N<sub>31</sub>O<sub>42</sub>

**Mol. Wt.:** 2615.76

**Exact Mass:** 2614.25

**CHARACTERIZATION**

**PROPERTY**

**TEST RESULT**

**Appearance / Physical State**

White, lyophilized solid

**Purity (>90% via HPLC)**

Conforms, >95%

**Mass Spectrometry (ESI -POS)**

Conforms,  $[M+3H]^{3+} = 872.8$   
 $[M+4H]^{4+} = 654.8$   
 $[M+4H+ACN]^{4+} = 665.1$

**BATCH INFORMATION**

**Lot Number:**

XXXXXXX

**Date Prepared:**

XXXXXXX

**NOTES**

1. Store as lyophilized powder  $-20 \pm 5$  °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.