

## CERTIFICATE OF ANALYSIS

### GENERAL INFORMATION

**Product No.:** GA621000

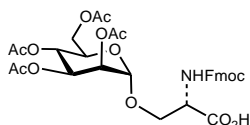
**CAS No.:** 118358-80-8

**Product Name:** Fmoc-Ser( $\alpha$ -D-Man(Ac)<sub>4</sub>)-OH

**Other Names:** Fmoc-Ser( $\alpha$ -D-Man)-OH, peracetate; Fmoc-Ser(Man(Ac)<sub>4</sub>- $\alpha$ -D)-OH; N- $\alpha$ -Fmoc-O- $\beta$ -(2,3,4,6-tetra-O-acetyl- $\alpha$ -D-mannopyranosyl)-L-serine; N-(9-Fluorenylmethoxycarbonyl)-O-(2,3,4,6-tetra-O-acetyl- $\alpha$ -D-mannopyranosyl)-L-serine

**Description:** N/A

**Structure:**



**Formula:** C<sub>32</sub>H<sub>35</sub>NO<sub>14</sub>

**Mol. Wt.:** 657.62

**Exact Mass:** 657.21

### CHARACTERIZATION

**PROPERTY**

**OBSERVATION**

**Appearance & Physical State:**

White to off-white, solid powder

**Proton NMR** (d<sub>4</sub>-MeOH, 400 MHz):

Conforms

**Mass Spectrometry** (ESI-POS):

Conforms, [M+H]<sup>+</sup> = 658.1  
[M+Na]<sup>+</sup> = 680.1

**Purity** (>95% by HPLC):

Conforms, >98%

### BATCH INFORMATION

**Lot No.:**

XXXXXX

**Date Prepared:**

XXXXXX

### NOTES

1. Store as lyophilized powder at -20 ± 5°C.
2. Keep dry. Allow container and contents to warm to room temperature before opening.
3. Avoid storing product in solutions.