

**CERTIFICATE OF ANALYSIS**

**GENERAL INFORMATION**

**Product No.:** GA431000

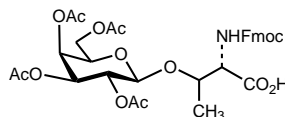
**CAS No.:** 127656-85-3

**Product Name:** Fmoc-Thr( $\beta$ -D-Gal(Ac)<sub>4</sub>)-OH

**Other Names:** Fmoc-Thr( $\beta$ -D-Gal)-OH, peracetate; Fmoc-Thr((Ac)<sub>4</sub>- $\beta$ -D-Gal)-OH; Fmoc-Thr(Gal(Ac)<sub>4</sub>- $\beta$ -D)-OH; N- $\alpha$ -Fmoc-O- $\beta$ -(2,3,4,6-tetra-O-acetyl- $\beta$ -D-galactopyranosyl)-L-threonine; N-(9-fluorenylmethoxycarbonyl)-O-(2,3,4,6-tetra-O-acetyl- $\beta$ -D-galactopyranosyl)-L-threonine

**Description:** N/A

**Structure:**



**Formula:** C<sub>33</sub>H<sub>37</sub>NO<sub>14</sub>

**Mol. Wt.:** 671.65

**Exact Mass:** 671.22

**CHARACTERIZATION**

**PROPERTY**

**OBSERVATION**

**Appearance & Physical State:**

Off white, solid powder

**Proton NMR** (d<sub>4</sub>-MeOH, 500 MHz):

Conforms

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

Conforms [M+H]<sup>+</sup> = 672.2  
[2M+H]<sup>+</sup> = 1343.7  
[M-H]<sup>-</sup> = 670.2  
[2M-H]<sup>-</sup> = 1341.7

(ESI-NEG):

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

Conforms, >99%

**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.