

Alta Bioscience Ltd
37 Walkers Road
Manor Side
Redditch
B98 9HE
Tel: +44 (0) 1527 584495
info@altabioscience.com
www.altabioscience.com



Certificate of Analysis

Product Name: Fmoc-Gln(Trt)-OH Lot No: 221215-36301
CAS No: 132327-80-1 Store at: $\leq 25^{\circ}\text{C}$
Molecular Formula: $\text{C}_{39}\text{H}_{34}\text{N}_2\text{O}_5$ Molecular Weight: 610.70
Manufacturing Date: 15/12/22

| Tests | Specifications | Result |
|--|--|-------------------------------|
| Appearance | White to off white powder | Off white powder |
| Purity (HPLC) | $\geq 98.5\%$ | 98.70% |
| Purity (TLC) | $\geq 98\%$ | >98% |
| Optical Purity | $\leq 0.5\%$ D-enantiomer | 0.403% |
| Melting Point | $80-171^{\circ}\text{C}$ | $121.5-127.4^{\circ}\text{C}$ |
| Specific Rotation $[\alpha]^{20}_{\text{D}}$ | $-14.5^{\circ} \pm 2^{\circ}$ (C=1 in DMF) | -13.4° (C=1 in DMF) |
| Clarity of solution | 0.3 gram in 2mL DMF clear solution | Complies |
| Water Content(K.F.) | $\leq 5.0\%$ | 0.12% |
| Loss on drying | $\leq 3.0\%$ (50°C, 2h) | 0.60% |
| IR Spectrum | In accordance with the structure | Complies |
| Mass Spectrum | In accordance with the structure | Complies |
| NMR Spectrum | In accordance with the structure | Complies |

Signed:

Date: 04 April 2023

(Quality Assurance)

For conditions of sale, please refer to our brochure or our website at
<http://altabioscience.com/terms-and-conditions>