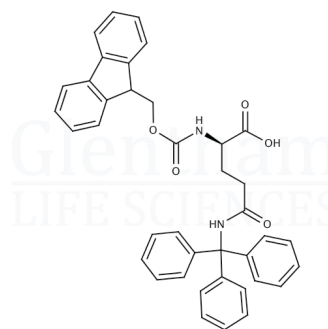


## Certificate of Analysis

|               |                    |
|---------------|--------------------|
| Product Name  | Fmoc-D-Gln(Trt)-OH |
| Glentham Code | GM3440             |
| CAS Number    | 200623-62-7        |
| PubChem SID   | 310273593          |
| MDL-Nummer    | MFCD00151924       |
| Batch Number  | 463QTQ             |

|                   |                                                               |
|-------------------|---------------------------------------------------------------|
| Molecular Weight  | 610.70                                                        |
| Molecular Formula | C <sub>39</sub> H <sub>34</sub> N <sub>2</sub> O <sub>5</sub> |
| Storage Temp.     | +4°C                                                          |



| Property                  | Specification                              | Batch 463QTQ               |
|---------------------------|--------------------------------------------|----------------------------|
| Physical Description      | White or off-white powder                  | White powder               |
| Solubility (5% in DMF)    | Clear, colourless to faint yellow solution | Clear, colourless solution |
| Specific Optical Rotation | +12.5 - +16.5 ° (c=1, DMF)                 | +16.1°                     |
| L-Enantiomer              | ≤ 1.0%                                     | 0.063%                     |
| Water (KF)                | ≤ 3.0%                                     | 0.26%                      |
| Loss on Drying            | ≤ 3.0%                                     | 0.51%                      |
| Purity (HPLC)             | ≥ 98.0%                                    | 99.61%                     |

|                       |            |
|-----------------------|------------|
| Specification Version | v1.0       |
| Manufacture Date      | 2018-01-17 |
| Re-Test Date          | 2027-11-09 |

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

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