



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-228159  
Lot Number: SAMPLE  
Product Name: Fmoc-Cys(Trt)-OH  
CAS Number: 103213-32-7  
Molecular Formula:  $C_{37}H_{51}NO_4S$   
Molecular Weight: 585.71

| Test                                  | Specification                          | Result           |
|---------------------------------------|----------------------------------------|------------------|
| Appearance                            | White powder                           | Complies         |
| Identification (NMR)                  | Consistent with structure              | Complies         |
| Identification (Infrared Spectrum)    | Consistent with structure              | Complies         |
| Identification (Mass Spectrometry)    | Consistent with structure              | Complies         |
| Purity (HPLC)                         | $\geq 99\%$                            | 99.76%           |
| Melting Point                         | 170 - 180 °C                           | 175.3 - 176.3 °C |
| Solution (Clarity)                    | Clear (0.3 g in 2 ml DMF)              | Complies         |
| Specific Rotation ( $\alpha_{20/D}$ ) | $+20^\circ \pm 2^\circ$ (C = 1 in DMF) | $+20.85^\circ$   |
| Impurity                              | D-enantiomer $\leq 0.3\%$              | 0.071%           |
| Kaiser Test                           | $< 0.05\%$                             | Complies         |
| Loss on Drying                        | $\leq 1.0\%$ (80 °C, 2h)               | 0.05%            |
| Water Content (KF)                    | $\leq 1.0\%$                           | 0.53%            |

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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