

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-Cys(Trt)-OH Lot No: 230106-35202-1
CAS No: 103213-32-7 Store at: $\leq 25^{\circ}\text{C}$
Molecular Formula: $\text{C}_{37}\text{H}_{31}\text{NO}_4\text{S}$ Molecular Weight: 585.71
Manufacturing Date: 6/01/23

Tests	Specifications	Result
Appearance	White powder	Complies
Purity (HPLC)	$\geq 99\%$	99.65%
Purity (TLC)	$\geq 98\%$	>98%
Optical Purity	$\leq 0.3\%$ D-enantiomer	0.04%
Melting Point	170-180°C	174.1-175.1°C
Specific Rotation $[\alpha]^{20}_{\text{D}}$	$+20^{\circ} \pm 2^{\circ}$ (C=1 in DMF)	$+21.6^{\circ}$ (C=1 in DMF)
Clarity of solution	0.3 gram in 2mL DMF clear solution	Complies
Water Content(K.F.)	$\leq 1.0\%$	0.08%
Loss on drying	$\leq 1.0\%$ (80°C, 2h)	0.25%
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)

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<http://altabioscience.com/terms-and-conditions>