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Certificate of Analysis

Product Name: Fmoc-His(Trt)-OH Lot No: 220823-36701
CAS No: 109425-51-6 Store at: $\leq 25^{\circ}\text{C}$
Molecular Formula: $\text{C}_{40}\text{H}_{33}\text{N}_3\text{O}_4$ Molecular Weight: 619.71
Manufacturing Date: 23/08/22

Tests	Specifications	Result
Appearance	White powder	Complies
Purity (HPLC)	$\geq 99\%$	99.71%
Purity (TLC)	$\geq 98\%$	>98%
Optical Purity	$\leq 0.3\%$ D-enantiomer	Not Detectable
Melting Point	130-decomposition $^{\circ}\text{C}$	192.4 $^{\circ}\text{C}$ (Decomposition)
Specific Rotation $[\alpha]^{20}_{\text{D}}$	+86 $^{\circ}\pm 8^{\circ}$ (C=5 in CHCl_3)	+92.2 $^{\circ}$ (C=5 in CHCl_3)
Clarity of solution	0.3 gram in 2mL DMF clear solution	Complies
Water Content(K.F.)	$\leq 2.0\%$	1.45%
Loss on drying	$\leq 2.0\%$ (50 $^{\circ}\text{C}$, 2h)	1.28%
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>