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Certificate of Analysis

Product Name: Fmoc-Ser(tBu)-OH Lot No: 221026-36102
CAS No: 71989-33-8 Store at: $\leq 25^{\circ}\text{C}$
Molecular Formula: $\text{C}_{22}\text{H}_{25}\text{NO}_5$ Molecular Weight: 383.44
Manufacturing Date: 26/10/22

Tests	Specifications	Result
Appearance	White powder	Complies
Purity (HPLC)	$\geq 99\%$	99.91%
Purity (TLC)	$\geq 98\%$	>98%
Optical Purity	$\leq 0.3\%$ D-enantiomer	0.08%
Melting Point	125-140°C	130.6-131.6°C
Specific Rotation $[\alpha]^{20}_{\text{D}}$	$+25^{\circ} \pm 2.5^{\circ}$ (C=1 in EtOAc)	$+27.1^{\circ}$ (C=1 in EtOAc)
Clarity of solution	0.3 gram in 2mL DMF clear solution	Complies
Water Content(K.F.)	$\leq 1.0\%$	0.58%
Loss on drying	$\leq 1.0\%$ (60°C, 2h)	0.83%
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>