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Certificate of Analysis

Product Name: Fmoc-Pro-OH Lot No: 220910-35801
CAS No: 71989-31-6 Store at: $\leq 25^{\circ}\text{C}$
Molecular Formula: $\text{C}_{20}\text{H}_{19}\text{NO}_4$ Molecular Weight: 337.37
Manufacturing Date: 10/9/22

Tests	Specifications	Result
Appearance	White powder	Complies
Purity (HPLC)	$\geq 99\%$	99.25%
Purity (TLC)	$\geq 98\%$	$> 98\%$
Optical Purity	$\leq 0.3\%$ D-enantiomer	Not detectable
Melting Point	$100-118^{\circ}\text{C}$	$113.6-114.2^{\circ}\text{C}$
Specific Rotation $[\alpha]^{20}_{\text{D}}$	$-32^{\circ} \pm 2^{\circ}$ (C=1 in DMF)	-33.2° (C=1 in DMF)
Clarity of solution	0.3 gram in 2mL DMF clear solution	Complies
Water Content(K.F.)	$\leq 3.0\%$	0.35%
Loss on drying	$\leq 1.0\%$ (50°C, 2h)	0.19%
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>