



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-228178  
Lot Number: SAMPLE  
Product Name: Fmoc-D-Ser(tBu)-OH  
CAS Number: 128107-47-1  
Molecular Formula:  $C_{22}H_{25}NO_5$   
Molecular Weight: 383.44

Test	Specification	Result
Appearance	White powder	Complies
Enantiomeric Purity	$\leq 0.5\%$ L-enantiomer	0.12%
Identification (NMR)	Consistent with structure	Complies
Identification (Infrared Spectrum)	Consistent with structure	Complies
Identification (Mass Spectrometry)	Consistent with structure	Complies
Purity (HPLC)	$\geq 99\%$	99.74%
Melting Point	125 - 140 °C	130.9 - 131.7 °C
Solution (Clarity)	0.3 g in 2 ml DMF, clear solution	Complies
Specific Rotation ( $\alpha_{20/D}$ )	$-26^\circ \pm 3^\circ$ (c = 1 in EtOAc)	$-27.0^\circ$
Kaiser Test	$< 0.05\%$	Complies
Loss on Drying	$\leq 1.0\%$	0.36%
Water Content (KF)	$\leq 1.0\%$	0.11%

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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