

Analytical Data Sheet

Lot number **1061001**
not for drug use

Catalog number **B-1180.0005**
Product number **4011856.0005**
Product **Fmoc- Ser(tBu) - OPfp**
Molecular formula $C_{28}H_{24}F_5NO_5$
Relative molecular mass 549.49

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in acetone)
Identification (TLC)	complies with authentic material
Melting point	50 °C
Specific optical rotation	$[\alpha]_D^{24} = -13.2^\circ$ (1% in chloroform)
Purity (HPLC)	99.7% (TFA)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.5% dicyclohexylurea
TLC conditions	methanol 60% plate: RP-8 chloroform/methanol/acetic acid 80/3/1 chloroform/ethylacetate 9/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine, ammoniummolybdate
Enantiomer content (GC)	< 0.1% D-Enantiomer
Assay (elemental analysis)	99.9% (Cth 61.20%, Cfd 61.11%)
Water content (KF volumetric)	0.1%

Latest update: August 11, 2015

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