

Analytical Data Sheet

Lot number **1071328**
not for drug use

Catalog number **B-3120.0005**
Product number **4028163.0005**
Product **Fmoc- Cys(3- (Boc- amino) - propyl) - OH**
Molecular formula **C₂₆H₃₂N₂O₆S**
Relative molecular mass **500.62**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in dioxane) clear, colorless solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Melting point	117 °C
Specific optical rotation	$[\alpha]_D^{24} = -29.2^\circ$ (1 % in dimethylformamide)
Purity (HPLC)	98.3% (TFA)
Related impurities (HPLC)	0.4% Fmoc-Cys(3-(Fmoc-amino)-propyl)-OH not det. Fmoc- β -Ala-OH
Purity (TLC)	$\geq 98\%$
Related impurities (TLC)	< 0.2% H-Cys(3-(Boc-amino)-propyl)-OH
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 90/8/2 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (GC)	< 0.1% D-Enantiomer
Assay (titration)	98.2% (TBAH)
Water content (KF volumetric)	0.5%
Acetic acid content (IC)	< 0.0187%