

Analytical Data Sheet

Lot number **1073204**
not for drug use

Catalog number **B-1005.0005**
Product number **4006622.0005**
Product **Fmoc- Cys(Acm) - OH**
Molecular formula $C_{21}H_{22}N_2O_5S$
Relative molecular mass 414.48

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol) clear, colorless solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -45.9^\circ$ (1% DMF)
Purity (HPLC)	99.5% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc- β -Ala-OH 0.2% Fmoc-Cys(Acm)-Cys(Acm)-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H-Cys(Acm)-OH
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 77.5/15/7.5 chloroform/methanol/acetic acid/H ₂ O 70/42/0.5/10 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (chiral chromatography)	< 0.1% D-enantiomer
Assay (titration)	98.8% (TBAH)
Water content (KF volumetric)	0.1%
Acetic acid content (IC)	0.010%

Latest update: August 31, 2017

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