

Analytical Data Sheet

Lot number **1060325**
not for drug use

Catalog number **B-1890.0001**
Product number **4014984.0001**
Product **Fmoc- D- 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 (ESI-MS)	m = 414.5u (average mass)
Identification (TLC)	complies with authentic material
Melting point	146 °C
Purity (HPLC)	99.2% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc-β-Ala-OH < 0.1% Fmoc-D-Cys(Acm)-D-Cys(Acm)-OH < 0.1% Fmoc-β-Ala-D-Cys(Acm)-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H-D-Cys(Acm)-OH
TLC conditions	chloroform/methanol/acetic acid 77.5/15/7.5 chloroform/methanol/acetic acid/H ₂ O 70/42/0.5/10 ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	< 0.1% L-Enantiomer
Assay (titration)	98.9% (TBAH)
Water content (KF volumetric)	0.3%
Acetic acid content (IC)	0.004%