

Analytical Data Sheet

Lot number	1000034112 not for drug use
Product	Fmoc-Cys((R)-2,3-di(palmitoyloxy)-propyl)-OH
Product number	4042951.1000
Molecular formula	C ₅₃ H ₈₃ NO ₈ S
Relative molecular mass	894.31

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (25 mg/mL in Dioxan)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -10.8^\circ$ (2.5% in Dioxan)
Purity (HPLC)	98.00% (TFA)
Related impurities (HPLC)	0.06% (Fmoc-Cys-OH) ₂
Purity (TLC)	> 98%
TLC conditions	chloroform/ethylacetate/acetic acid 50/50/2 toluene/dioxane/acetic acid 95/25/4 Plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB, ammoniummolybdate
Enantiomer content (chiral chromatography)	0.16% Fmoc-D-Cys((R)-2,3-di(palmitoyloxy)-propyl)-OH
Assay (elemental analysis)	99.6% (Cth 71.18%, Cfd 70.91%)
Water content (KF volumetric)	0.4%
Acetic acid content (IC)	< 20 mg/kg (limit test)

Latest update: June 23, 2020

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