

Analytical Data Sheet

Lot number

1024252

not for drug use

Catalog Number	B-3120.0001
Product number	4028163.0001
Product	Fmoc- Cys(3- (Boc- amino) - propyl) - OH
Molecular formula	$C_{26}H_{32}N_2O_6S$
Relative molecular mass	500.62

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in dioxane)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 61.93 %</td> <td>C = 61.82 %</td> </tr> <tr> <td>H = 6.48 %</td> <td>H = 6.21 %</td> </tr> <tr> <td>N = 5.56 %</td> <td>N = 5.85 %</td> </tr> </table>	Theory	Found	C = 61.93 %	C = 61.82 %	H = 6.48 %	H = 6.21 %	N = 5.56 %	N = 5.85 %
Theory	Found								
C = 61.93 %	C = 61.82 %								
H = 6.48 %	H = 6.21 %								
N = 5.56 %	N = 5.85 %								
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, 260 nm)								
Related impurities (HPLC)	< 0.3% Fmoc-Cys(Aminopropyl)-OH								
Purity (TLC)	≥ 98%								
TLC conditions	chloroform/methanol/benzene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 90/8/2 benzene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Water content (KF volumetric)	0.5%								
Latest update: May 29, 2009	Analytical Data Sheet Lot number 1024252								