

Analytical Data Sheet

Lot number

0538347

not for drug use

Catalog Number	B-1950.0025
Product number	4017071.0025
Product	Fmoc-D-2-Nal-OH
Molecular formula	$C_{28}H_{23}NO_4$
Relative molecular mass	437.50

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 = 76.9 %</td> <td>C = 77.0 %</td> </tr> <tr> <td>H = 5.3 %</td> <td>H = 5.5 %</td> </tr> <tr> <td>N = 3.2 %</td> <td>N = 3.2 %</td> </tr> </table>	Theory	Found	C = 76.9 %	C = 77.0 %	H = 5.3 %	H = 5.5 %	N = 3.2 %	N = 3.2 %
Theory	Found								
C = 76.9 %	C = 77.0 %								
H = 5.3 %	H = 5.5 %								
N = 3.2 %	N = 3.2 %								
Identification (TLC)	Complies with authentic material								
Melting point	168 °C								
Specific optical rotation	$[\alpha]_D^{24} = -35.4^\circ$ (1 % in dioxane) (corrected)								
Purity (HPLC)	99.6% (TFA, 260 nm)								
Purity (TLC)	> 99%								
TLC conditions	Chloroform/methanol/acetic acid/H ₂ O 85/13/0.5/1.5 Chloroform/methanol/toluene/H ₂ O 8/8/8/1 Chloroform/methanol/acetic acid 85/10/5 Plate: silicagel 60 F ₂₅₄ Detected by: UV, chlorine-tolidine, TMB								
Enantiomer content (GC)	0.1% Fmoc-L-2-Nal-OH								
Assay (titration)	99.7% (TBAH)								
Water content (KF volumetric)	< 1.0%								
Residual organic solvents (GC)	dioxane not detected								
Latest update: October 25, 2008									