

Analytical Data Sheet

Lot number

1012109

not for drug use

Catalog Number	B-2010.0005
Product number	4017373.0005
Product	Fmoc-D-Asn(Trt)-OH
Molecular formula	$C_{38}H_{32}N_2O_5$
Relative molecular mass	596.68

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/ml in dioxane)
Identification (TLC)	complies with authentic material
Melting point	211 °C
Specific optical rotation	$[\alpha]_D^{24} = +13.8^\circ$
Purity (HPLC)	99.1% (TFA)
Related impurities (HPLC)	0.04% Fmoc-D-Asn(Trt)-D-Asn(Trt)-OH
Purity (TLC)	> 99%
TLC conditions	chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 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, ninhydrin, chlorine-tolidine
Enantiomer content (GC)	0.3% Fmoc-L-Asn(Trt)-OH
Assay (elemental analysis)	98.1% (Cth 76.49%, Cfd 75.02%)
Water content (KF volumetric)	0.1%

Latest update: October 24, 2008

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