

Analytical Data Sheet

Lot number

1036421

not for drug use

Catalog Number	B-2055.0025
Product number	4017853.0025
Product	Fmoc- D- Asn(Mtt) - OH
Molecular formula	C ₃₉ H ₃₄ N ₂ O ₅
Relative molecular mass	610.71

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 = 76.3%</td> <td>C = 75.9%</td> </tr> <tr> <td>H = 6.0%</td> <td>H = 6.1%</td> </tr> <tr> <td>N = 4.4%</td> <td>N = 4.4%</td> </tr> </table> <p>calc. x 0.04 H₂O (0.1%) x 0.23 IPE (3.7%) x 0.07 THF (0.8%)</p>	Theory	Found	C = 76.3%	C = 75.9%	H = 6.0%	H = 6.1%	N = 4.4%	N = 4.4%
Theory	Found								
C = 76.3%	C = 75.9%								
H = 6.0%	H = 6.1%								
N = 4.4%	N = 4.4%								
Identification (TLC)	complies with authentic material								
Melting point	190 °C								
Specific optical rotation	[α] _D ²⁴ = + 14.3° (1% in methanol)								
Purity (HPLC)	99.3% (TFA)								
Related impurities (HPLC)	< 0.1% Fmoc-D-Asn(Mtt)-D-Asn(Mtt)-OH								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.2% H-D-Asn(Mtt)-OH								
TLC conditions	chloroform/methanol/acetic acid 90/8/2 chloroform/methanol/acetic acid/H ₂ O 85/13/0.5/1.5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Enantiomer content (GC)	< 0.4% Fmoc-Asn(Mtt)-OH								
Assay (titration)	95.1% (TBAH)								
Water content (KF volumetric)	0.1%								
Acetic acid content (IC)	103mg/kg								

