

Analytical Data Sheet

Lot number

1045445

not for drug use

Catalog Number	B-1595.0005
Product number	4011877.0005
Product	Fmoc- Glu- OtBu
Molecular formula	$C_{24}H_{27}NO_6$
Relative molecular mass	425.48

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in dioxane) clear, colorless solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Melting point	112 °C
Specific optical rotation	$[\alpha]_D^{24} = -22.4^\circ$ (1% in methanol)
Purity (HPLC)	99.8%
Related impurities (HPLC)	< 0.1% Fmoc-β-Ala-OH not det. Fmoc-Glu-OH < 0.1% Fmoc-Glu(Glu-OtBu)-OtBu
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Glu-OtBu
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (chiral chromatography)	< 0.1% D-enantiomer
Assay (titration)	99.3%
Water content (KF volumetric)	0.1%
Acetic acid content (IC)	0.008%
Latest update: November 15, 2012	