

Analytical Data Sheet

Lot number **1053432**
not for drug use

Catalog number **B-1595.0001**
Product number **4011877.0001**
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	111 °C
Specific optical rotation	$[\alpha]_D^{24} = -22.9^\circ$ (1% in methanol)
Purity (HPLC)	99.9% (TFA)
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, TMB
Enantiomer content (chiral chromatography)	< 0.1% D-enantiomer
Assay (titration)	99.9% (TBAH)
Water content (KF volumetric)	0.1%
Acetic acid content (IC)	0.002%