

Analytical Data Sheet

Lot number **1000000227**
not for drug use

Catalog number **B-1975.0001**
Product number **4018171.0001**
Product **Fmoc- β - cyclohexyl- Ala- OH**
Fmoc- β - cyclohexyl- Ala- OH
Molecular formula **C₂₄H₂₇NO₄**
Relative molecular mass **393.48**

Tests	Results
Appearance	white powder
Appearance of solution	clear, slightly yellow solution (0.5 mmol/mL in DMF) clear, colorless solution (50 mg/ml in dioxane)
Identification (TLC)	Complies with authentic material
Melting point	135 °C
Specific optical rotation	$[\alpha]_D^{24} = -7.2^\circ$ (1 % in dioxane)
Purity (HPLC)	99.86% (TFA)
Related impurities (HPLC)	0.04% Fmoc- β -Ala-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H- β -cyclohexyl-Ala-OH
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/acetic acid 90/8/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (chiral chromatography)	< 0.10%D-enantiomer
Assay (titration)	99.2% (TBAH)
Water content (KF volumetric)	0.3%
Acetic acid content (IC)	det., < 20 mg/kg (LOQ)