

Analytical Data Sheet

Lot number **1000024613**
not for drug use

Catalog number **B-2475.0005**
Product number **4019087.0005**
Product **Fmoc- Asp(2- phenylisopropyl ester) - OH**
Molecular formula $C_{28}H_{27}NO_6$
Relative molecular mass 473.53

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in dioxane) clear solution (0.5 mmol/mL in DMF)
Identification (elemental analysis)	Theory Found C = 71.0% C = 70.9% H = 5.8% H = 5.8% N = 3.0% N = 2.9%
Identification (TLC)	complies with authentic material
Melting point	89 °C
Purity (HPLC)	99.53% (TFA)
Related impurities (HPLC)	0.04% Fmoc-Asp-OH 0.00% Fmoc-β-Ala-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Asp(2-phenylisopropylester)-OH
TLC conditions	chloroform/methanol/acetic acid 90/8/2 chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid/H ₂ O 60/45/14/6 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (chiral chromatography)	0.3% D-enantiomer
Assay (titration)	99.3%(TBAH)
Acetic acid content (IC)	0.003%