

Analytical Data Sheet

Lot number **1069448**
not for drug use

Catalog number **B-2125.0005**
Product number **4017826.0005**
Product **Fmoc- D- Trp(Boc) - OH**
Molecular formula $C_{31}H_{30}N_2O_6$
Relative molecular mass 526.59

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in dioxane) essentially clear solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = + 20.7^\circ$ (1% in DMF)
Purity (HPLC)	98.9% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc- β -Ala-OH < 0.1% Fmoc- β -Ala-D-Trp(Boc)-OH < 0.1% Fmoc-D-Trp(Boc)-D-Trp(Boc)-OH 0.2% Fmoc-D-Trp-OH
Purity (TLC)	$\geq 99\%$
Related impurities (TLC)	$\leq 0.1\%$ H-D-Trp(Boc)-OH
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 85/10/5 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Other amino acids (GC)	< 0.2%
Enantiomer content (chiral chromatography)	0.1% L-enantiomer
Assay (titration)	93.1% (TBAH)
Acetic acid content (IC)	0.015%
Residual organic solvents (GC)	acetone 1749 ppm ethyl acetate 99 ppm n-hexane 1058 ppm dichloromethane < 4.2% MtBE < 1.5%

THF < 3.0%

Latest update: January 11, 2017

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