

Analytical Data Sheet

Lot number **1062302**
not for drug use

Catalog number **B-4435.0005**
Product number **4066291.0005**
Product **Fmoc- Thr(tBu) - Gly- OH**
Molecular formula $C_{25}H_{30}N_2O_6$
Relative molecular mass 454.52

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/ml in methanol)
Appearance of solution (Turbidimetry)	essentially clear solution (0.5 mmol/mL DMF)
Identification (TLC)	complies with authentic material
Melting point	122 °C
Purity (HPLC)	99.5% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc-β-Ala-OH < 0.1% Fmoc-Thr(tBu)-OH not det. Fmoc-β-Ala-Thr(tBu)-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Gly-OH
TLC conditions	chloroform/methanol/acetic acid 90/8/2 chloroform/methanol/toluene/H ₂ O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, IRH
Enantiomer content (GC)	> 99.7% L-Thr < 0.1% D-Thr < 0.1% L-allo-Thr < 0.1% D-allo-Thr
Assay (titration)	100.1% (TBAH)
Water content (KF volumetric)	0.1%
Acetic acid content (IC)	0.0026%

Latest update: October 20, 2015

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