

Analytical Data Sheet

Lot number **1000050255**
not for drug use

Product Fmoc-Thr(Trt)-OH
Product number **4025725.0005**
Molecular formula C₃₈H₃₃NO₅
Relative molecular mass 583.68

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in ethylacetate)
Identification (TLC)	complies with authentic material
Specific optical rotation	[α] _D ²⁴ - 26.7° (1% in ethylacetate)
Purity (HPLC)	98.5% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc-β-Ala-OH
Purity (TLC)	99%
TLC conditions	chloroform/ethylacetate/acetic acid 50/50/2 chloroform/methanol/acetic acid 90/8/2 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	> 99.7% L-Thr isomers < 0.1% D-Thr isomers < 0.1% L-allo-Thr isomers < 0.1% D-allo-Thr isomers
Assay (titration)	82.4% (TBAH)
Water content (KF volumetric)	0.2%
Acetic acid content (IC)	0.004%

Latest update: July 26, 2021

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