

Analytical Data Sheet

Lot number **1071856**
not for drug use

Catalog number **B-3945.0001**
Product number **4061386.0001**
Product **Boc- Thr(Ala- Fmoc) - OH**
Molecular formula $C_{27}H_{32}N_2O_8$
Relative molecular mass 512.56

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol) clear, colorless solution (0.5 mmol/mL in DMF)
Identification (ESI-MS)	m = 512.5u (average mass)
Purity (HPLC)	99.8% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc-Ala-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% Boc-Thr-OH
TLC conditions	chloroform/methanol/acetic acid/H ₂ O 90/10/0.5/1 ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 chloroform/methanol/toluene/H ₂ O 8/8/8/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (GC)	0.2% D-Alanin > 99.7% L-Threonin < 0.1% D-Threonin < 0.1% L-allo-Threonin < 0.1% D-allo-Threonin
Assay (titration)	93.3% (TBAH)
Water content (KF volumetric)	0.5%
Acetic acid content (IC)	0.009%