

Analytical Data Sheet

Lot number **1000003946**
not for drug use

Retest date N/A
 Catalog number **B-1670.0100**
 Product number **4013349.0100**
 Product **Fmoc- Arg(Pmc) - OH**
 Molecular formula $C_{35}H_{42}N_4O_7S$
 Relative molecular mass 662.81

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 (TLC)	complies with authentic material
Specific optical rotation	<p>uncorrected:</p> $[\alpha]_D^{24} = -4.8^\circ$ (1% in dimethylformamide) $[\alpha]_{365}^{24} = -21.0^\circ$ (1% in dimethylformamide)
	<p>corrected for assay (titration):</p> $[\alpha]_D^{24} = -5.4^\circ$ (1% in dimethylformamide) $[\alpha]_{365}^{24} = -23.6^\circ$ (1% in dimethylformamide)
Purity (HPLC)	99.7% (TFA)
Related impurities (HPLC)	0.1% Fmoc- β -Ala-OH < 0.1% Fmoc- β -Ala-Arg(Pmc)-OH < 0.1% Fmoc-Arg(Pmc)-Arg(Pmc)-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H-Arg(Pmc)-OH
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 85/10/5 chloroform/methanol/acetic acid/H ₂ O 70/42/0.5/10 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (chiral chromatography)	0.1% D-enantiomer
Assay (titration)	91.6% (TBAH)
Water content (KF volumetric)	0.2%
Acetic acid content (IC)	0.013%

Residual organic solvents (GC)

isopropylether 2.9%
acetonitrile not det.
dioxane 3.5%
isopropanol < 0.1%
tetrahydrofuran not det.
dimethylformamide not det.

Latest update: July 31, 2018

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