

Analytical Data Sheet

Lot number **1068356**
not for drug use

Catalog number **B-1570.0025**
Product number **4011444.0025**
Product **Fmoc- His(1- Trt) - OH**
Molecular formula $C_{40}H_{33}N_3O_4$
Relative molecular mass 619.72

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	$[\alpha]_D^{24} = +27.4^\circ$ (1% in dioxane)
Purity (HPLC)	99.9% (TFA)
Related impurities (HPLC)	< 0.1 Fmoc- β -Ala-OH not det. Fmoc- β -Ala-His(1-Trt)-OH < 0.1% Fmoc-His(1-Trt)-His(1-Trt)-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-His(1-Trt)-OH
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 ethylacetate/pyridine/acetic acid/H ₂ O 60/10/3/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Other amino acids (GC)	< 0.2%
Enantiomer content (chiral chromatography)	0.1% D-enantiomer
Assay (titration)	98.8% (TBAH)
Water content (KF volumetric)	0.2%
Acetic acid content (IC)	< 0.002% (< LOQ)
Residual organic solvents (GC)	dichloromethane 4220 mg/kg (LOD 22 mg/kg, LOQ 73 mg/kg) ethanol 1360 mg/kg (LOD 64 mg/kg, LOQ 213 mg/kg)

Latest update: October 21, 2016

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