

Analytical Data Sheet

Lot number	1000038615 not for drug use
Catalog number	B-1710.0005
Product	Fmoc-D-His(1-Trt)-OH
Product number	4014118.0005
Molecular formula (net)	C ₄₀ H ₃₃ N ₃ O ₄
Molecular mass (average)	619.7

Tests	Results
Components	
Appearance	
Appearance	complies [white to off-white powder]
Color	white
Appearance of solution	
Appearance of solution	complies [clear, colorless to slightly colored solution in dioxane (50 mg/mL)]
Color of solution	colorless
Appearance of solution	complies [essentially clear solution in DMF (0.5 mmol/mL)]
Identification (TLC)	
R _f value	complies [complies]
Specific optical rotation	
[α] _D ²⁴ (titration corr)	-26.1 (°)·mL/(dm·g)
Purity and related impurities (HPLC)	
Purity	99.9%
Fmoc-β-Ala-OH	< 0.02% (LOQ)
Fmoc-β-Ala-D-His(1-Trt)-OH	< 0.02% (LOQ)
Fmoc-D-His(1-Trt)-D-His(1-Trt)-OH	0.03%
Purity and related impurities (TLC)	
Purity	> 99%
H-D-His(1-Trt)-OH	< 0.05%
CAT Enantiomer content (GC)	
L-enantiomer	0.21%

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Components	
Assay (titration)	
Assay (titration, net)	95.0%
Water content (Karl Fischer volumetric)	
Water content	0.12%
Acetic acid content (IC)	
Acetic acid content	40 mg/kg
Residual organic solvents (GC)	
Total residual solvents	4.6%

CAT Analysis performed by C.A.T. GmbH & Co Chromatographie und Analysetechnik KG, Heerweg 10, 72070 Tübingen, Germany

This Analytical Data Sheet is based on reviewed analytical data and is valid without handwritten signatures.

Date created: September 29, 2020