

## Analytical Data Sheet

Lot number **1071327**  
not for drug use

Catalog number **B-2190.0005**  
Product number **4018533.0005**  
Product **Fmoc- His(1- Mtt) - OH**  
Molecular formula  $C_{41}H_{35}N_3O_4$   
Relative molecular mass 633.75

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in dioxane) clear, colorless solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Melting point	131 °C
Purity (HPLC)	99.1% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc-β-Ala -OH 0.1% Fmoc-His-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-His(1-Mtt)-OH
TLC conditions	chloroform/methanol/acetic acid 90/8/2 toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (chiral chromatography)	< 0.1% D-enantiomer
Assay (titration)	93.0% (TBAH)
Water content (KF volumetric)	0.8%
Acetic acid content (IC)	0.003%

Latest update: April 21, 2017

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