

## Analytical Data Sheet

Lot number **1000020515**  
not for drug use

Catalog number **B-1540.0005**  
Product number **4007643.0005**  
Product **Fmoc- His(Bzl) - OH**  
Molecular formula  $C_{28}H_{25}N_3O_4$   
Relative molecular mass 467.52

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/ml in methano:chloroform 1/1)  clear, colorless solution (0.5 mmol/mL in DMF)
Identification (TLC)	conforms with authentic material
Specific optical rotation	$[\alpha]_D^{24} = + 111.9^\circ$ (1% chloroform)
Purity (HPLC)	99.8% (TFA)
Related impurities (HPLC)	0.1% Fmoc- $\beta$ -Ala-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H-His(Bzl)-OH
TLC conditions	chloroform/methanol/acetic acid 77.5/15/7.5 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/20/6/11 chloroform/methanol/acetic acid/H <sub>2</sub> O 70/42/0.5/10 plate: silicagel 60 F <sub>254</sub> detected by: UV, chlorine-tolidine,ninhydrin, ammoniummolybdate
Enantiomer content (GC)	0.4% D-enantiomer
Assay (titration)	100.0% (TBAH)
Water content (KF volumetric)	0.1%
Acetic acid content (IC)	0.0037%

Latest update: August 16, 2019

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