

Analytical Data Sheet

Lot number **1076128**
not for drug use

Catalog number **B-1340.0025**
Product number **4003168.0025**
Product **Fmoc-Ile-OH**
Molecular formula $C_{21}H_{23}NO_4$
Relative molecular mass 353.42

Tests	Results
Appearance	white powder
Appearance of solution	clear solution (177 mg/mL in DMF)
Identification (ESI-MS)	m = 353.2u (monoisotopic mass)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -11.8^\circ$ (1% in DMF)
Purity (HPLC)	99.87% (TFA)
Related impurities (HPLC)	not det. Fmoc- β -Ala-OH 0.00% Fmoc- β -Ala-Ile-OH 0.00% Fmoc-Ile-Ile-OH $\leq 0.03\%$ each single unspecified
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.05% H-Ile-OH
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 chloroform/ethylacetate/acetic acid 50/50/2 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Other amino acids (GC)	< 0.20%
Enantiomer content (chiral chromatography)	0.02% Fmoc-allo-Ile-OH < 0.007% (LOD) Fmoc-D-Ile-OH < 0.007% (LOD) Fmoc-D-allo-Ile-OH
Assay (titration)	99.8% (TBAH)
Water content (KF volumetric)	0.1%
Acetic acid content (IC)	23 mg/kg

Latest update: March 21, 2018

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