

Analytical Data Sheet

Lot number **1000016720**
not for drug use

Catalog number **B-3725.0250**
Product number **4043668.0250**
Product **Fmoc- β - (1- piperazinyl) - Ala(Boc) - OH**
Molecular formula $C_{27}H_{33}N_3O_6$
Relative molecular mass 495.58

Tests	Results
Appearance	off-white powder
Appearance of solution	yellowish slightly turbid solution (50 mg/mL in THF)
Identification (ESI-MS)	m= 495.2u (monoisotopic mass)
Identification (1H -NMR)	structure is confirmed by 1H -NMR
Purity (HPLC)	94.69% (TFA)
Related impurities (HPLC)	0.00% Fmoc- β -Ala-OH 1.09% each single unspecified
Purity (TLC)	$\geq 95\%$
TLC conditions	toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/acetic acid 90/8/2 chloroform/methanol/toluene/H ₂ O 8/8/8/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Assay (titration)	92.7%(TBAH)
Water content (KF volumetric)	1.8%

Latest update: May 27, 2019

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