

Analytical Data Sheet

Lot number	1000051745 not for drug use
Product	Fmoc-Arg(Pbf)-OPfp
Product number	4025874.0005
Molecular formula	C ₄₀ H ₃₉ F ₅ N ₄ O ₇ S
Relative molecular mass	814.84

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in dioxane)
Identification (TLC)	Rf value in agreement with authentic material
Purity (HPLC)	89.00% (TFA)
Related impurities (HPLC)	4.09% Fmoc-Arg(Pbf)-OH 0.09% Fmoc-β-Ala-OH
Related impurities (TLC)	≤ 1% N-ethyl-N-(3-dimethylaminopropyl)-carbodiimide · HCl
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/acetic acid/H ₂ O 90/10/0.5/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Assay (elemental analysis)	98.5% (Cth 58.96%, Cfd 58.09%)
Water content (KF volumetric)	0.4%

Latest update: August 02, 2021

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