

# Analytical Data Sheet

Lot number

## 1048335

not for drug use

<b>Catalog Number</b>	<b>B-1395.0025</b>
<b>Product number</b>	<b>4010331.0025</b>
<b>Product</b>	<b>Fmoc- p- nitro- Phe- OH</b>
<b>Molecular formula</b>	$C_{24}H_{20}N_2O_6$
<b>Relative molecular mass</b>	432.43

Tests	Results
<b>Appearance</b>	white powder
<b>Appearance of solution</b>	clear, colorless solution (25 mg/mL in dioxane) clear, colorless solution (0.5 mmol/mL in DMF)
<b>Identification (TLC)</b>	complies with authentic material
<b>Melting point</b>	223 °C
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = -40.2^\circ$ (1 % in DMF)
<b>Purity (HPLC)</b>	99.9% (TFA)
<b>Related impurities (HPLC)</b>	< 0.1% Fmoc-β-Ala-OH
<b>Purity (TLC)</b>	> 99%
<b>Related impurities (TLC)</b>	< 0.2% H-4-Nitro-Phe-OH
<b>TLC conditions</b>	chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 chloroform/methanol/acetic acid 90/8/2 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine
<b>Enantiomer content (chiral chromatography)</b>	0.4% D-enantiomer
<b>Assay (titration)</b>	99.0% (TBAH)
<b>Water content (KF volumetric)</b>	0.2%
<b>Acetic acid content (IC)</b>	0.004%
Latest update: May 24, 2013	