

Analytical Data Sheet

Lot number **1067535**
not for drug use

Catalog number **B-1330.0025**
Product number **4003078.0025**
Product **Fmoc- Gly- OH**
Molecular formula $C_{17}H_{15}NO_4$
Relative molecular mass 297.31

Tests	Results								
Appearance	white powder								
Appearance of solution	colorless solution (50 mg/mL in methanol) essentially clear solution (0.5 mmol/mL in DMF)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 68.7%</td> <td>C = 68.7%</td> </tr> <tr> <td>H = 5.1%</td> <td>H = 5.1%</td> </tr> <tr> <td>N = 4.7%</td> <td>N = 4.8%</td> </tr> </tbody> </table>	Theory	Found	C = 68.7%	C = 68.7%	H = 5.1%	H = 5.1%	N = 4.7%	N = 4.8%
Theory	Found								
C = 68.7%	C = 68.7%								
H = 5.1%	H = 5.1%								
N = 4.7%	N = 4.8%								
Identification (TLC)	complies with authentic material								
Melting point	176 °C								
Purity (HPLC)	99.7% (TFA)								
Related impurities (HPLC)	< 0.1% Fmoc-β-Ala-OH < 0.1% Fmoc-β-Ala-Gly-OH < 0.1% Fmoc-Gly-Gly-OH								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.05% H-Gly-OH								
TLC conditions	chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid/H ₂ O 70/42/0.5/10 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Other amino acids (GC)	< 0.2% each								
Assay (titration)	99.8% (TBAH)								
Water content (KF volumetric)	0.4%								
Acetic acid content (IC)	0.005%								

Latest update: September 01, 2016

Analytical Data Sheet
Lot number **1067535**