

Analytical Data Sheet

Lot number **1072345**
not for drug use

Catalog number **B-2880.0001**
Product number **4026721.0001**
Product **Fmoc- allo- Ile- OH**
Molecular formula $C_{21}H_{23}NO_4$
Relative molecular mass 353.42

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in dioxane) clear, colorless 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 = 71.4 %</td> <td>C = 71.4 %</td> </tr> <tr> <td>H = 6.6 %</td> <td>H = 6.5 %</td> </tr> <tr> <td>N = 4.0 %</td> <td>N = 4.0 %</td> </tr> </tbody> </table>	Theory	Found	C = 71.4 %	C = 71.4 %	H = 6.6 %	H = 6.5 %	N = 4.0 %	N = 4.0 %
Theory	Found								
C = 71.4 %	C = 71.4 %								
H = 6.6 %	H = 6.5 %								
N = 4.0 %	N = 4.0 %								
Identification (TLC)	complies with authentic material								
Melting point	151 °C								
Specific optical rotation	$[\alpha]_D^{24} = -12.2^\circ$ (1 % in DMF)								
Purity (HPLC)	99.8% (TFA)								
Related impurities (HPLC)	0.2% Fmoc- β -Ala-OH								
Purity (TLC)	$\geq 99\%$								
Related impurities (TLC)	< 0.1% H-allo-Ile-OH								
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 90/8/2 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (chiral chromatography)	0.4% L-Ile-OH < 0.1% D-Ile-OH < 0.1% D-allo-Ile-OH > 99.4% L-allo-Ile-OH								
Assay (titration)	99.6% (TBAH)								
Water content (KF volumetric)	0.3%								

Acetic acid content (IC)

< 0.002%

Latest update: July 08, 2017

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