

# Analytical Data Sheet

Lot number

**0509768**

not for drug use

<b>Catalog Number</b>	<b>B-1665</b>
<b>Product number</b>	<b>4009752</b>
<b>Product</b>	<b>Fmoc-β-(2-thienyl)-Ala-OH</b>
<b>Molecular formula</b>	<b>C<sub>22</sub>H<sub>19</sub>NO<sub>4</sub>S</b>
<b>Relative molecular mass</b>	<b>393.46</b>

Tests	Results								
<b>Appearance</b>	white powder								
<b>Identification (elemental analysis)</b>	<table> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 67.16 %</td> <td>C = 67.30 %</td> </tr> <tr> <td>H = 4.87 %</td> <td>H = 4.84 %</td> </tr> <tr> <td>N = 3.56 %</td> <td>N = 3.55 %</td> </tr> </table>	Theory	Found	C = 67.16 %	C = 67.30 %	H = 4.87 %	H = 4.84 %	N = 3.56 %	N = 3.55 %
Theory	Found								
C = 67.16 %	C = 67.30 %								
H = 4.87 %	H = 4.84 %								
N = 3.56 %	N = 3.55 %								
<b>Identification (TLC)</b>	conforms with authentic material								
<b>Melting point</b>	173 °C								
<b>Specific optical rotation</b>	<p><math>[\alpha]_D^{24} = +17.9^\circ</math> (1 % in dioxane)</p> <p><math>[\alpha]_{436}^{24} = +39.6^\circ</math> (1 % in dioxane)</p>								
<b>Purity (HPLC)</b>	99.9% (TFA)								
<b>Purity (TLC)</b>	> 99%								
<b>TLC conditions</b>	chloroform/methanol/acetic acid 90/8/2 chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F <sub>254</sub> detected by: UV, chlorine-tolidine								
<b>Enantiomer content (GC)</b>	< 0.1% D-Enantiomer								
<b>Assay (elemental analysis)</b>	99.5% (Cth 67.16 %, Cfd 66.81 %)								

Latest update: October 25, 2008

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