

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	01578
<b>Product</b>	<b><i>N</i><sup>α,ε</sup>-Bis-Fmoc-L-lysine</b>
<b>Lot Number</b>	000424-160528-36810 Fmoc-L-Lys(Fmoc)-OH
<b>CAS Number</b>	78081-87-5
<b>Molecular Formula</b>	C <sub>36</sub> H <sub>34</sub> N <sub>2</sub> O <sub>6</sub>
<b>Molecular Weight</b>	590.8

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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear solution (0.3 g in 2 mL DMF)
<b>Melting Point</b>	131.8-140.0 °C
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -9.2° (C=2 in DMF)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.58% (60 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>D-Enantiomer</b>	0.0742%
<b>Purity by HPLC</b>	99.11%
<b>Chiral Purity</b>	99.93% (ee)
<b>Storage</b>	Store at 0-8 °C
<b>Remarks</b>	See material safety data sheet for additional information For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
Quality Control Manager