

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	04085
<b>Lot Number</b>	000424-191120-22209
<b>Product</b>	<b>Fmoc-<i>p</i>-phenyl-D-Phenylalanine</b> Fmoc- <i>p</i> -phenyl-D-Phenylalanine
<b>CAS Number</b>	205526-38-1
<b>Molecular Formula</b>	C <sub>30</sub> H <sub>25</sub> NO <sub>4</sub>
<b>Molecular Weight</b>	463.52

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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>	180.9 - 182.2 °C
<b>Water Content (Karl Fisher)</b>	0.08%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = 10.2 ° (C=1 in DMF) [α] <sub>D</sub> <sup>20</sup> = -17.2 ° (C=1 in MeOH)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.3% (90 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Chiral HPLC</b>	99.72% (ee)
<b>L-Enantiomer</b>	0.277%
<b>Purity by HPLC</b>	99.29%
<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