

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	28786
<b>Lot Number</b>	000424-190403-230262
<b>Product</b>	<b>Fmoc-( S)-3-amino-2-methyl propionic acid</b> Fmoc- S -Ampa-OH
<b>CAS Number</b>	203854-58-4
<b>Molecular Formula</b>	C <sub>19</sub> H <sub>19</sub> NO <sub>4</sub>
<b>Molecular Weight</b>	325.36

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<b>Appearance</b>	White to off-white powder
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = +10.04 ° (C=1 in DMF)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Chiral HPLC</b>	98% (ee)
<b>Other Enantiomer</b>	2%
<b>Purity by HPLC</b>	99.2%
<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**