

# Chem-Impex International, Inc.

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## Certificate of Analysis

**Catalogue Number** 31954  
**Lot Number** 000424-171211-37007  
**Product** **N<sup>α</sup>-Fmoc-N<sup>δ</sup>-trityl-L-Ornithine**

Fmoc-L-Orn(Trt)-OH

**CAS Number** 1998701-26-0  
**Molecular Formula** C<sub>39</sub>H<sub>36</sub>N<sub>2</sub>O<sub>4</sub>  
**Molecular Weight** 596.71

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**Appearance** White to off-white powder  
**Solubility** Clear solution (0.1 g in 2ml DMF)  
**Melting Point** 140.1-141.7 °C  
**Water Content (Karl Fisher)** 0.289%  
**Optical Rotation** [α]<sub>D</sub><sup>20</sup> = + 11° (C=1 in THF)  
**Infrared Spectrum** Conforms to structure  
**Analysis by Mass Spectra** Conforms to standard  
**Loss on Drying** 1.20% (60°C, 2h)  
**<sup>1</sup>H NMR** Conforms to structure  
**Chiral HPLC** 99.91% (ee)  
**D-Enantiomer** 0.0866%  
**Purity by HPLC** 99.65%  
**Storage** Store at 0-8 °C

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**Remarks**

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**