

# Chem-Impex International, Inc.

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## Certificate of Analysis

**Catalogue Number** 14841  
**Lot Number** 000424-150328-36213  
**Product** **Fmoc-O-tert-butyl-D-allo-threonine**

Fmoc-D-allo-Thr(tBu)-OH

**CAS Number** 170643-02-4  
**Molecular Formula** C<sub>23</sub>H<sub>27</sub>NO<sub>5</sub>

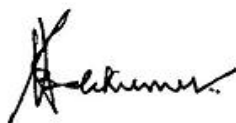
**Molecular Weight** 397.47

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**Appearance** White powder  
**Solubility** Clear solution (0.3 g in 2 mL DMF)  
**Melting Point** 83.6-88.7 °C  
**Water Content (Karl Fisher)** 3.59%  
**Optical Rotation** [α]<sub>D</sub><sup>20</sup> = -21.6° (C=1 in EtOAc)  
**Infrared Spectrum** Conforms to structure  
**Analysis by Mass Spectra** Conforms to standard  
**Loss on Drying** 0.24% (40°C, 2h)  
**<sup>1</sup>H NMR** Conforms to structure  
**Purity by HPLC** 99.04%  
**Storage** Store at 0-8 °C

**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