

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	02483
<b>Lot Number</b>	000424-201121-36206
<b>Product</b>	<b>Fmoc-<i>O</i>-<i>tert</i>-butyl-D-threonine</b> Fmoc-D-Thr(tBu)-OH
<b>CAS Number</b>	138797-71-4
<b>Molecular Formula</b>	C <sub>23</sub> H <sub>27</sub> NO <sub>5</sub>
<b>Molecular Weight</b>	397.5

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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>	134.4 - 135.4 °C
<b>Elemental Analysis (Found)</b>	< 5% (C, H, N)
<b>Water Content (Karl Fisher)</b>	0.08%
<b>Kaiser Test</b>	< 0.05%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -14.8 ° (C=1 in EtOAc)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.25% (60°C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Chiral HPLC</b>	100% (ee)
<b>L-Enantiomer</b>	Not detected
<b>Purity by HPLC</b>	99.52%
<b>Purity by TLC</b>	> 98%
<b>Storage</b>	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**