

# *Chem-Impex International, Inc.*

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825 Dillon Drive

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## *Certificate of Analysis*

<b>Catalogue Number</b>	07392
<b>Lot Number</b>	000424-181225-23725
<b>Product</b>	<b>Fmoc-<i>p</i>-trifluoromethyl-L-phenylalanine</b> Fmoc-L-Phe(4-CF <sub>3</sub> )-OH
<b>CAS Number</b>	247113-86-6
<b>Molecular Formula</b>	C <sub>25</sub> H <sub>20</sub> F <sub>3</sub> NO <sub>4</sub>
<b>Molecular Weight</b>	455.43

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<b>Appearance</b>	White to off-white powder
<b>Solubility</b>	Clear solution (0.3 g in 2 mL DMF)
<b>Melting Point</b>	128.5 - 134.7 °C
<b>Water Content (Karl Fisher)</b>	0.93%
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -38.1 ° (C=1 in DMF)
<b>Infrared Spectrum</b>	Conforms to structure
<b>Analysis by Mass Spectra</b>	Conforms to standard
<b>Loss on Drying</b>	0.43% (70 °C, 2h)
<b><sup>1</sup>H NMR</b>	Conforms to structure
<b>Chiral HPLC</b>	100% (ee)
<b>D-Enantiomer</b>	Not detected
<b>Purity by HPLC</b>	99.56%
<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**

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

**Bala Kumar**  
**Quality Control Manager**