Chem-Impex International, Inc.

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935 Dillon Drive 825 Dillon Drive Wood Dale, IL 60191 Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number 33590

Lot Number 000424-210410-21199

Product Fmoc-2,4-difluoro-D-phenylalanine

Fmoc-D-Phe(2,4-DiF)-OH

CAS Number 1217820-78-4
Molecular Formula C₂₄H₁₉F₂NO₄

Molecular Weight 423.41

Appearance White powder

Solubility Clear solution (0.3 g in 2 mL DMF)

0.17%

Melting Point 154.9 - 155.7 °C

Water Content (Karl

Fisher)

Optical Rotation

 $[a]^{20}D = 43.6 \circ (C = 1 \text{ in DMF})$

Infrared Spectrum Conforms to structure

Analysis by Mass Spectra Conforms to standard

Less on Drying 0.50% (70 °C, 2h)

Loss on Drying 0.50% (70 °C, 2h) **1H NMR** Conforms to structure

Purity by HPLC 99.54%

Storage Store at 2 - 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