Chem-Impex International, Inc.

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935 Dillon Drive

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825 Dillon Drive

Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number 29698

Lot Number 000424-201201-21156

Product (S)-Fmoc-2-amino-4,4,4-trifluoro-butyric acid

CAS Number 181128-48-3 **Molecular Formula** C₁₉H₁₆F₃NO₄

Molecular Weight 379.34

Appearance White solid

Optical Rotation [a]_D²⁰ = -21.9 $^{\circ}$ (C=1 in CH3CN)

Analysis by Mass Spectra Conforms to standard

1H NMR Conforms to structure

Chiral HPLC100% (ee)Other EnantiomerNot detectedPurity by HPLC99.33% (210 nm)StorageStore 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