

Chem-Impex International, Inc.

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Certificate of Analysis

| | |
|--------------------------|--|
| Catalogue Number | 05719 |
| Lot Number | 000424-181222-36704 |
| Product | <i>N</i>^α-Fmoc-<i>N</i>^{im}-Boc-L-histidine |
| | Fmoc-L-His(Boc)-OH |
| CAS Number | 81379-52-4 |
| Molecular Formula | C ₂₆ H ₂₇ N ₃ O ₆ |
| Molecular Weight | 477.5 |

| | |
|------------------------------------|--|
| Appearance | White powder |
| Solubility | Clear solution (0.3 g in 2 mL DMF) |
| Melting Point | 120.7 - 122.2 °C |
| Elemental Analysis (Found) | < 5% (C, H, N) |
| Water Content (Karl Fisher) | 0.296% |
| Optical Rotation | [α] ²⁰ _D = -5.5 ° (C=1 in DMF) |
| Infrared Spectrum | Conforms to structure |
| Analysis by Mass Spectra | Conforms to standard |
| Loss on Drying | 2.460% (60 °C, 2h) |
| ¹H NMR | Conforms to structure |
| Chiral HPLC | 100% (ee) |
| D-Enantiomer | Not detectable |
| Purity by HPLC | 99.66% |
| Purity by TLC | > 98% |
| Storage | Store at ≤ - 15 °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