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Certificate of Analysis

Catalogue Number 03711
Lot Number 000201-2109
Product *N*^α-Fmoc-*N*^{im}-methyltrityl-L-histidine

Fmoc-L-His(Mtt)-OH

CAS Number 133367-34-7
Molecular Formula C₄₁H₃₅N₃O₄
Molecular Weight 633.75

Appearance White crystals
Solubility Clearly soluble (0.5 mmol in 1 ml DMF)
Melting Point 137-139 °C
Water Content (Karl Fisher) 1.5%
Kaiser Test Negative
TLC System Chloroform/methanol/acetic acid (90:8:2)
Toluene/methanol/acetic acid (70/15:15)
Optical Rotation [α]_D²⁰ = + 78.3° (C=1 in CHCl₃)
Infrared Spectrum Conforms to structure
Residual Solvents Dichloromethane: 1.8%
Acetone: 0.7%
Free Amino Acids < 0.1%
Assay 95.6%
Purity by HPLC 99.6% (265nm)
99.4% (220nm)
Purity by TLC > 99.0%
Storage 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