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Certificate of Analysis

Catalogue Number 03905
Lot Number 000127-1018276
Product *N*^α-Fmoc-*N*^γ-4-methyltrityl-L-asparagine

Fmoc-L-Asn(Mtt)-OH

CAS Number 144317-22-6

Molecular Formula C₃₉H₃₄N₂O₅

Molecular Weight 610.72

Appearance Off-white powder

Solubility Clear, colorless solution (50mg/mL in Dioxane)

Melting Point 195 °C

TLC System Chloroform/Methanol/Acetic acid/Water (85:13:0.5:1.5)

Chloroform/Methanol/Acetic acid (90:8:2)

Benzene/Dioxane/Acetic acid (95:25:4)

Plate: Silica gel 60 F₂₅₄

Detected by: UV, ninhydrin, chlorine-tolidine

Optical Rotation [α]_D²⁴ = -14.5° (C=1 in MeOH)

Related Substances < 0.1% Fmoc-Asn(Mtt)-Asn(Mtt)-OH

Enantiomeric Content (GC): 0.2% Fmoc-D-Asn(Mtt)-OH

Assay by titration 94.2% (TBAH)

Purity by HPLC 99.5% (TFA)

Purity by TLC > 99%

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