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Certificate of Analysis

Catalogue Number	03639
Product	Fmoc-L-glutamic acid α-allyl ester
Lot Number	000424-150317-36613 Fmoc-L-Glu-OAll
CAS Number	144120-54-7
Molecular Formula	C ₂₃ H ₂₃ NO ₆
Molecular Weight	409.43

Appearance	White to off-white powder
Solubility	Clear solution (0.3 g in 2 mL DMF)
Melting Point	118.7-118.9 °C
Water Content (Karl Fisher)	0.195%
Optical Rotation	[α] _D ²⁰ = -21.8° (C=1 in DMF)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	0.55% (50 °C, 2h)
¹H NMR	Conforms to structure
Purity by HPLC	98.61%
Application	Allyl esters are useful carboxy protecting groups in the synthesis of various cyclic peptides glycopeptides. Allyl esters are cleaved quantitatively under mild conditions using Pd(0) catalyst.
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