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Certificate of Analysis

Catalogue Number	14852
Lot Number	000424-220421-21211
Product	Fmoc-L-homoarginine hydrochloride Fmoc-L-Homoarg-OH • HCl <i>N</i> ^α -Fmoc-(S)-2-amino-6-guanidinohexanoic acid hydrochloride
CAS Number	208174-14-5
Molecular Formula	C ₂₂ H ₂₆ N ₄ O ₄ • HCl
Molecular Weight	446.97

Appearance	White powder
Solubility	Clear solution (0.1 g in 4 mL DMF)
Melting Point	180.4 - 181.8 °C
Elemental Analysis (Found)	< 5% (C, H, N)
Water Content (Karl Fisher)	0.48%
Optical Rotation	[α] _D ²⁰ = -10.9 ° (C=1 in DMF)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	0.63% (80 °C, 2h)
¹H NMR	Conforms to structure
Chiral HPLC	99.96% (ee)
D-Enantiomer	0.04%
Purity by HPLC	99.45%
Purity by TLC	> 98%
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

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

Bala Kumar
Quality Control Manager