



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	04-1416
Lot Number	000424-110914-36005
Product	Fmoc-L-valine <i>N</i>-hydroxysuccinimide ester

Fmoc-L-Val-OSu

CAS Number	130878-68-1
Molecular Formula	C ₂₄ H ₂₄ N ₂ O ₆
Molecular Weight	436.5

Appearance	White to off-white powder
Solubility	Clear solution (0.3 g in 2mL DMF)
Melting Point	137.3-137.7 °C
Water Content (Karl Fisher)	0.46%
Optical Rotation	$[\alpha]_D^{20} = -32.05^\circ$ (C=1 in DMF)
Infrared Spectrum	Conform to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	0.06%
¹ H NMR	Conforms to structure
Purity by HPLC	99.05%
Storage	Store at 0-8°C