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Product Specifications

Catalogue Number	49639
Product	Fmoc-O-<i>tert</i>-butyl-L-threonine Fmoc-L-Thr(tBu)-OH
CAS Number	71989-35-0
Molecular Formula	C ₂₃ H ₂₇ NO ₅
Molecular Weight	397.5

Appearance	White powder
Solubility	Clear solution 0.3 g in 2 mL DMF
Melting Point	125 - 135 °C
Elemental Analysis (Theory)	≤5% (C, H, N)
Water Content (Karl Fisher)	≤ 1%
Kaiser Test	≤ 0.05%
Optical Rotation	[α] _{D20} = +16 ± 2 ° (C=1 in EtOAc)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	≤ 2% (60 °C, 2 h)
¹H NMR	Conforms to structure
Chiral HPLC	≥ 99.7%
D-Enantiomer	≤ 0.3%
Purity by HPLC	≥ 99%
Purity by TLC	≥ 98%
Storage	Store at 0 - 8 °C

For Laboratory Use Only