

# Chem-Impex International, Inc.

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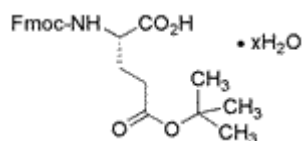
Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

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## Product Specifications

Catalogue Number	02413
Product	<b>Fmoc-L-glutamic acid <math>\gamma</math>-tert-butyl ester</b> Fmoc-L-Glu(OtBu)-OH hydrate Fmoc-L-glutamic acid 5-tert-butyl ester hydrate
CAS Number	204251-24-1, 71989-18-9
Molecular Formula	C <sub>24</sub> H <sub>27</sub> NO <sub>6</sub> ·H <sub>2</sub> O
Molecular Weight	443.49

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Appearance	White powder
Solubility	Clear solution (0.3 g in 2 mL DMF)
Melting Point	80 - 100 °C
Water Content (Karl Fisher)	≤ 6%
Kaiser Test	≤ 0.05%
Optical Rotation	[ $\alpha$ ] <sub>D</sub> <sup>20</sup> = -8.5 ± 2 ° (C=1 in MeOH)
Infrared Spectrum	Conforms to structure
Analysis by Mass Spectra	Conforms to standard
Loss on Drying	≤ 1% (40 °C, 2h)
<sup>1</sup> H NMR	Conforms to structure
Chiral HPLC	≥ 99.7% (ee)
D-Enantiomer	≤ 0.3%
Purity by HPLC	≥ 99%
Purity by TLC	≥ 98%
Storage	Store at 0 - 8 °C

**For Laboratory Use Only**