

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	03918
<b>Product</b>	<b><i>N</i><sup>α</sup>-Fmoc-<i>N</i><sup>δ</sup>-methyltrityl-L-glutamine</b>
<b>Lot Number</b>	000127-1018251 Fmoc-L-Gln(Mtt)-OH
<b>CAS Number</b>	144317-23-7
<b>Molecular Formula</b>	C <sub>40</sub> H <sub>36</sub> N <sub>2</sub> O <sub>5</sub>
<b>Molecular Weight</b>	624.75
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<b>Appearance</b>	White powder
<b>Solubility</b>	Clear, colorless solution (50mg/mL in DMF)
<b>Water Content (Karl Fisher)</b>	0.3%
<b>TLC System</b>	Chloroform/methanol/acetic acid/water, 70/42/0.5/10 Chloroform/methanol/toluene/water, 8/8/8/1 Toluene/dioxane/acetic acid, 95/25/4 Plate : Silicagel 60 F <sub>254</sub> Detected by : UV, ninhydrin, chlorine-tolidine
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>24</sup> = -2.0 ° (C=1 in MeOH)
<b>Residual Solvents</b>	Acetic acid : < 0.1%, Ether : 2.4%, Ethylacetate : 4.6%, Dioxane : 0.2%, Dimethylformamide : < 0.1%, Methanol : < 0.1%, Total : 7.1%
<b>Related Substances</b>	Fmoc-Gln(Mtt)-Gln(Mtt)-OH : < 0.1%
<b>Chiral HPLC</b>	> 99.9% (ee)
<b>D-Enantiomer</b>	< 0.1%
<b>Purity by HPLC</b>	98.9%
<b>Purity by TLC</b>	> 99%
<b>Storage</b>	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**