

# Chem-Impex International, Inc.

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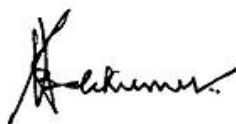
## Certificate of Analysis

|                          |                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Catalogue Number</b>  | 15651                                                                                                            |
| <b>Lot Number</b>        | 000705-163511                                                                                                    |
| <b>Product</b>           | <b>Fmoc-(R)-3-amino-3-(2-hydroxyphenyl)<br/>propionic acid</b><br>Fmoc-D-β-Phe(2-OH)-OH<br><br>Fmoc-D-β-o-Tyr-OH |
| <b>CAS Number</b>        | 511272-34-7                                                                                                      |
| <b>Molecular Formula</b> | C <sub>24</sub> H <sub>21</sub> NO <sub>5</sub>                                                                  |
| <b>Molecular Weight</b>  | 403.43                                                                                                           |

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appearance</b>       | White powder                                                                                                                                  |
| <b>Melting Point</b>    | 160-162 °C                                                                                                                                    |
| <b>TLC System</b>       | Chloroform/Methanol/Acetic acid (90:8:2) Single spot<br>Chloroform/Methanol/Benezene/Water (8:8:8:1) Single spot<br>Visualized with UV/Iodine |
| <b>Optical Rotation</b> | [α] <sub>D</sub> <sup>25</sup> = +23.1° (C=1 in DMF)                                                                                          |
| <b>Purity by HPLC</b>   | 99%                                                                                                                                           |
| <b>Storage</b>          | Store at 0-8 °C                                                                                                                               |
| <b>Remarks</b>          | See material safety data sheet for additional information<br><br>For laboratory use only                                                      |

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
**Quality Control Manager**