

# Chem-Impex International, Inc.

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Tel: (630) 766-2112

E-mail: sales@chemimpex.com

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

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## Certificate of Analysis

|                  |                                                             |
|------------------|-------------------------------------------------------------|
| Catalogue Number | 15417                                                       |
| Lot Number       | 20080414                                                    |
| Product          | <b>Fmoc-4-chloro-L-<math>\beta</math>-homophenylalanine</b> |

Fmoc-L- $\beta$ -HomoPhe(4-Cl)-OH

Fmoc-(S)-3-amino-4-(4-chlorophenyl)butyric acid

|            |             |
|------------|-------------|
| CAS Number | 270596-43-5 |
|------------|-------------|

|                   |                                                   |
|-------------------|---------------------------------------------------|
| Molecular Formula | C <sub>25</sub> H <sub>22</sub> ClNO <sub>4</sub> |
|-------------------|---------------------------------------------------|

|                  |        |
|------------------|--------|
| Molecular Weight | 435.91 |
|------------------|--------|

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|            |              |
|------------|--------------|
| Appearance | White powder |
|------------|--------------|

|                  |                                                               |
|------------------|---------------------------------------------------------------|
| Optical Rotation | [ $\alpha$ ] <sub>D</sub> <sup>25</sup> = -19.8° (C=1 in DMF) |
|------------------|---------------------------------------------------------------|

|                     |                       |
|---------------------|-----------------------|
| <sup>13</sup> C NMR | Conforms to structure |
|---------------------|-----------------------|

|                    |                       |
|--------------------|-----------------------|
| <sup>1</sup> H NMR | Conforms to structure |
|--------------------|-----------------------|

|                |        |
|----------------|--------|
| Purity by HPLC | 98.23% |
|----------------|--------|

|         |                 |
|---------|-----------------|
| Storage | Store at 2-8 °C |
|---------|-----------------|

|         |                                                           |
|---------|-----------------------------------------------------------|
| 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