

GL Biochem (Shanghai) Ltd. 吉尔生化(上海)有限公司

## **CERTIFICATE OF ANALYSIS**

| Product Name:      | Fmoc-His(Boc)-OH • CHA                    | Lot No.:                 | GLS150916-36708       |
|--------------------|---|--------------------------|-----------------------|
| CAS No.:           | 210820-99-8                               | Store at:                | Cool dry place(<25°C) |
| Molecular Formula: | $C_{26}H_{27}N_3O_6 \bullet C_6H_{13}N_6$ | Molecular Weight: 576.70 |                       |

Manufacturing Date: 2015-9-16

Retest Date:

2017-3-16

| Tests   | Specifications                                 | Results             |
|---|--|---------------------|
| Appearance                                      | White powder                                   | Complies            |
| Purity(HPLC)                                    | ≥98%   | 99.19%              |
| TLC   | ≥98%   | >98%                |
| Element analysis(C, N, H)                       | ≤5.0%  | <5.0%               |
| Melting Point                                   | 139-147°C                                      | 140.7-141.1°C       |
| Specific Rotation[a] <sup>20</sup> <sub>D</sub> | $-7^{\circ}\pm 2^{\circ}(C=2 \text{ in AcOH})$ | -6.25°(C=2 in AcOH) |
| Clarity of solution                             | 0.3 gram in 2ml AcOH clear solution            | Complies            |
| Water Content(K.F.)                             | ≤1.0%  | 0.369%              |
| Loss on drying                                  | ≤1.0%(60°C,2h)                                 | 0.90%               |
| Mass spectrum                                   | In accordance with the standard                | Complies            |
| IR spectrum                                     | In accordance with the standard                | Complies            |
| NMR spectrum                                    | In accordance with the standard                | Complies            |

GL Biochem warrants material of said quality at the time of sale. It is the sole responsibility of the customers to determine the adequacy of all materials for any intended or specific purpose or use. GL's sole obligation is to replace the material up to the extent of the purchase price. This warranty applies only to products in original packaging and does not apply to a product which has been tampered with or altered in any way or which has been misused or damaged by accident or negligence. All claims must be received in writing (by fax or email) within **30 days from date when product arrive at the destination city and failure** to do so shall constitute a waiver by customers for any and all such claims.

Prepared and Checked by:

Lu Yan (QA/QC)\_\_\_\_\_



## Should you have any question or reqeust about GLB's products and service, please feel free to contact:

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