

# Certificate of Analysis

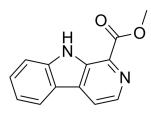
# $1-Methoxy carbonyl-\beta-carboline$

| Cat. No.:      | HY-N1633   |
|----------------|--|
| CAS No.:       | 3464-66-2  |
| Batch No.:     | 252339   |
| Chemical Name: | 9H-Pyrido[3,4-b]indole-1-carboxylic acid, methyl ester |

#### PHYSICAL AND CHEMICAL PROPERTIES

| Molecular Formula: | C <sub>13</sub> H <sub>10</sub> N <sub>2</sub> O <sub>2</sub>       |
|--------------------|---|
| Molecular Weight:  | 226.23  |
| Storage:           | 4°C, protect from light   |
|                    | * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |

## **Chemical Structure:**



## **ANALYTICAL DATA**

| Appearance:                  | White to off-white (Solid)  |
|------------------------------|---|
| <sup>1</sup> H NMR Spectrum: | Consistent with structure   |
| LCMS:                        | Consistent with structure   |
| Purity (LCMS):               | 99.62%  |
| Conclusion:                  | The product has been tested and complies with the given specifications. |
|                              |   |

Caution: Product has not been fully validated for medical applications. For research use only.

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