

## Certificate of Analysis

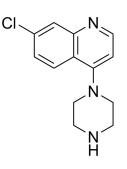
## 7-Chloro-4-(piperazin-1-yl)quinoline

| Cat. No.:      | HY-W020111                             |
|----------------|--|
| CAS No.:       | 837-52-5                               |
| Batch No.:     | 243556                                 |
| Chemical Name: | Quinoline, 7-chloro-4-(1-piperazinyl)- |

## PHYSICAL AND CHEMICAL PROPERTIES

| Molecular Formula: | $C_{13}H_{14}CIN_{3}$ |       |          |
|--------------------|-----------------------|-------|----------|
| Molecular Weight:  | 247.72                |       |          |
| Storage:           | Powder                | -20°C | 3 years  |
|                    |                       | 4°C   | 2 years  |
|                    | In solvent            | -80°C | 6 months |
|                    |                       | -20°C | 1 month  |

**Chemical Structure:** 



## ANALYTICAL DATA

| Appearance:                  | White to yellow (Solid)   |
|------------------------------|---|
| <sup>1</sup> H NMR Spectrum: | Consistent with structure   |
| Purity (HPLC):               | 97.86%  |
| 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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