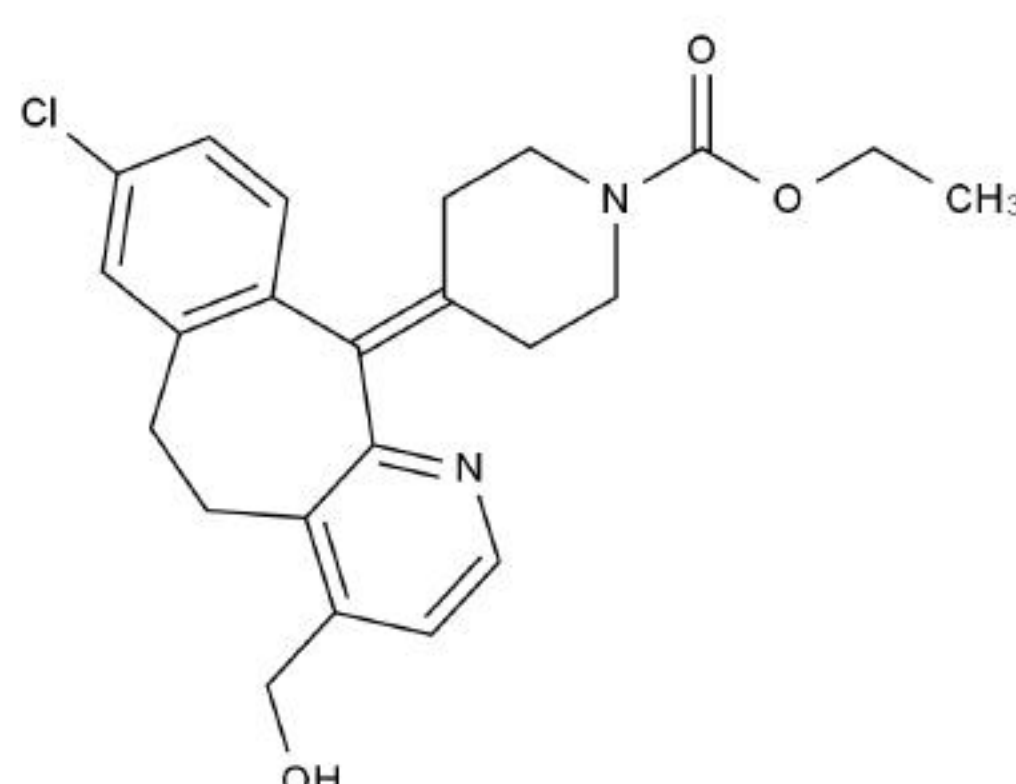


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                                                                                            |                            |                                           |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------|
| <b>Product Name:</b>      | ethyl 4-(8-chloro-4-(hydroxymethyl)-5,6-dihydro-11H-benzo[5,6]cyclohepta[1,2-b]pyridin-11-ylidene)piperidine-1-carboxylate | <b>Catalogue Number:</b>   | C4X-142610                                |
| <b>Synonyms:</b>          | N/A                                                                                                                        | <b>Lot Number:</b>         | 0112-RH-0017                              |
| <b>CAS Number:</b>        | 609806-40-8                                                                                                                | <b>Expiry Date:</b>        | Jan 12, 2030                              |
| <b>Molecular Formula:</b> | C <sub>23</sub> H <sub>25</sub> ClN <sub>2</sub> O <sub>3</sub>                                                            | <b>Storage:</b>            | -20°C±5°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 412.91                                                                                                                     | <b>Shipping Condition:</b> | Shipping with Ice Packs                   |
| <b>Solubility:</b>        | DMSO                                                                                                                       |                            |                                           |

Chemical Structure:



| Test Items     | Method            | Results           |
|----------------|-------------------|-------------------|
| Appearance     | Visual inspection | Pale Yellow Solid |
| Identification | LCMS&HNMR         | Confirmed         |
| Purity         | HPLC              | 97.139%           |
| Loss on Drying | TGA               | 1.3562%           |
| Assay          |                   | 95.8%             |

## Comment:

**CATO Research Chemicals Inc.**

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss on Drying) \* Purity HPLC (%) / 100%

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

## Signature:

Prepared by:

*Nice*

Reviewed by:

*Koi*

Approved by General Manager:

*David*

Date: Jan 13, 2026

Date: Jan 13, 2026

Date: Jan 13, 2026



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: https://www.cato-chem.com

