

# Certificate of Analysis

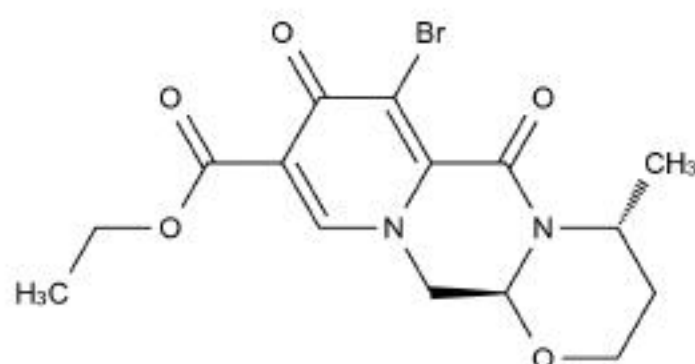
## Reference Material & Standard

|                           |                                                                                                                                             |                          |                                           |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b>      | (4R,12aS)-7-Bromo-3,4,6,8,12,12a-hexahydro-4-methyl-6,8-dioxo-2H-pyrido[1',2':4,5]pyrazino[2,1-b][1,3]oxazine-9-carboxylic Acid Ethyl Ester | <b>Catalogue Number:</b> | C1160638                                  |
| <b>Synonyms:</b>          | N/A                                                                                                                                         | <b>Lot Number:</b>       | 1118-SA-7248                              |
| <b>CAS Number:</b>        | 1246616-78-3                                                                                                                                | <b>Expiry Date:</b>      | Nov 17, 27                                |
| <b>Molecular Formula:</b> | C <sub>14</sub> H <sub>11</sub> BrN <sub>2</sub> O <sub>5</sub>                                                                             | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 385.21                                                                                                                                      |                          |                                           |

Warning:



Chemical Structure:



| Test Items      | Method            | Results   |
|-----------------|-------------------|-----------|
| Appearance      | Visual inspection | Solid     |
| Identification: | LC&HNMR           | Confirmed |
| Purity:         | HPLC              | 97.555%   |

CATO Research Chemicals Inc.

Signature:

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Approved by General Manager:

*David*

Date: Nov 18, 23

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## Directions:

1. *Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.*
2. *Minimum sample size: 1mg is recommended as the minimum sample size.*
3. *Metrological traceability: This product meets the requirements of ISO 17034 and is traceable to NMI through an unbroken chain of comparisons.*
4. *Instructions for handling and correct use: Handling in a well-ventilated place.*

## Document Version:

| Revision No. | Date       | Reason for Revision |
|--------------|------------|---------------------|
| 01           | Nov 18, 23 | First release.      |

