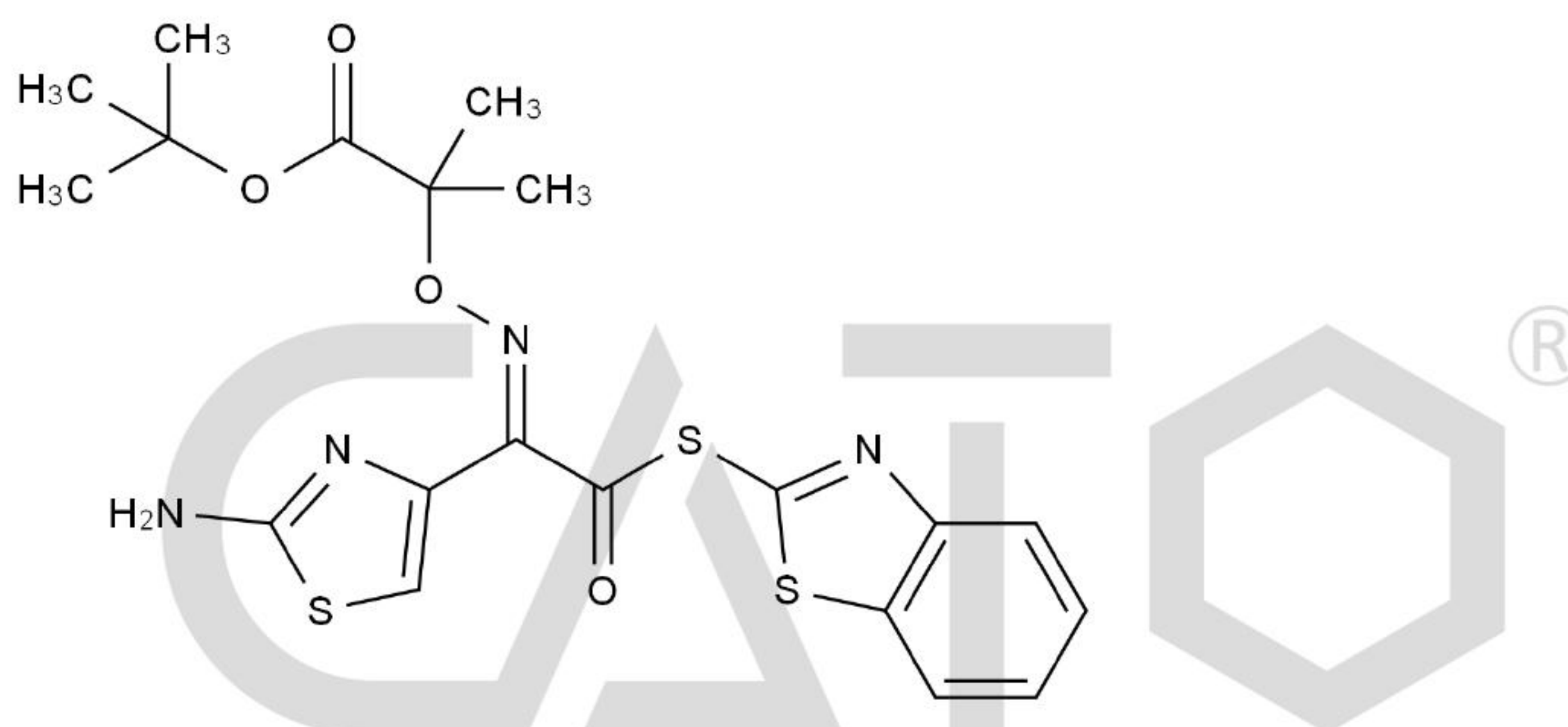


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                                              |                            |                                           |
|---------------------------|------------------------------------------------------------------------------|----------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Ceftazidime Impurity 23                                                      | <b>Catalogue Number:</b>   | C4X-121223                                |
| <b>Synonyms:</b>          | N/A                                                                          | <b>Lot Number:</b>         | 0618-RH-0006                              |
| <b>CAS Number:</b>        | 158183-05-2                                                                  | <b>Expiry Date:</b>        | Jun 16, 2030                              |
| <b>Molecular Formula:</b> | C <sub>20</sub> H <sub>22</sub> N <sub>4</sub> O <sub>4</sub> S <sub>3</sub> | <b>Storage:</b>            | -20°C±5°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 478.61                                                                       | <b>Shipping Condition:</b> | Shipping with Ice Packs                   |

Chemical Structure:



| Test Items     | Method            | Results      |
|----------------|-------------------|--------------|
| Appearance     | Visual inspection | Yellow Solid |
| Identification | LCMS&CNMR&HNMR    | Confirmed    |
| Purity         | HPLC              | 95.2%        |
| Assay          | qNMR              | 91.7%        |

Signature:

Prepared by:

Reviewed by:

Approved by General Manager:

Date: Jun 18, 2026

Date: Jun 18, 2026

Date: Jun 18, 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>

Page 1 of 8



Official  
WeChat