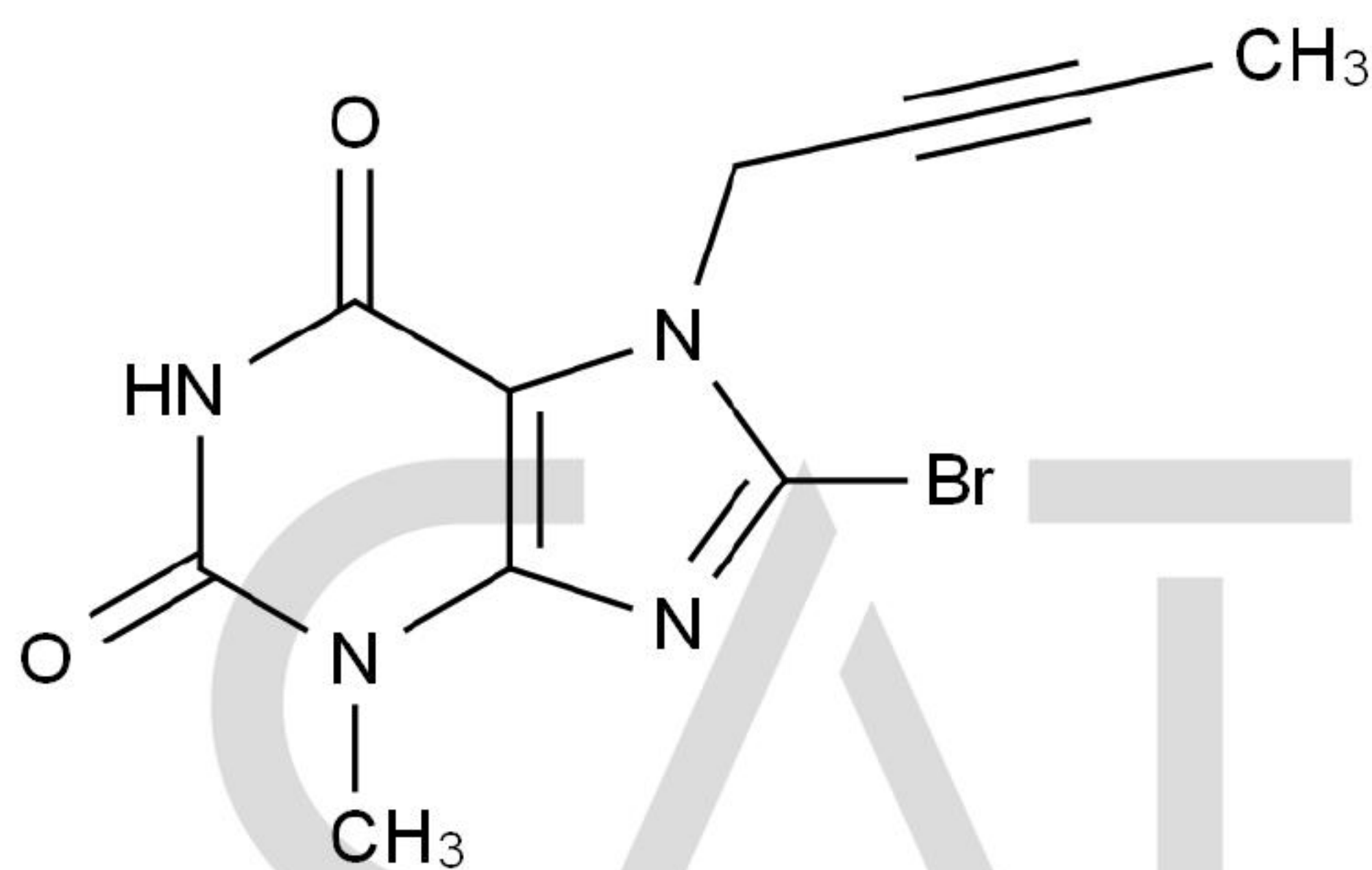


# Certificate of Analysis

## Reference Material & Standard

|                    |                                                                |                     |                                           |
|--------------------|----------------------------------------------------------------|---------------------|-------------------------------------------|
| Product Name:      | Linagliptin Impurity 31                                        | Catalogue Number:   | C4X-110131                                |
| Synonyms:          | N/A                                                            | Lot Number:         | 0123-RG-0003                              |
| CAS Number:        | 666816-98-4                                                    | Expiry Date:        | Feb 04, 2028                              |
| Molecular Formula: | C <sub>10</sub> H <sub>9</sub> BrN <sub>4</sub> O <sub>2</sub> | Storage:            | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 297.11                                                         | Shipping Condition: | Shipping at Room Temperature              |

Chemical Structure:



| Test Items     | Method            | Results     |
|----------------|-------------------|-------------|
| Appearance     | Visual inspection | White Solid |
| Identification | LCMS&CNMR&HNMR    | Confirmed   |
| Purity         | HPLC              | 100.0%      |
| Assay          | qNMR              | 99.1%       |

Signature:

Prepared by:

*Koi*

Reviewed by:

*Lisa*

Approved by General Manager:

*David*

Date: Apr 07, 2026

Date: Apr 07, 2026

Date: Apr 07, 2026



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