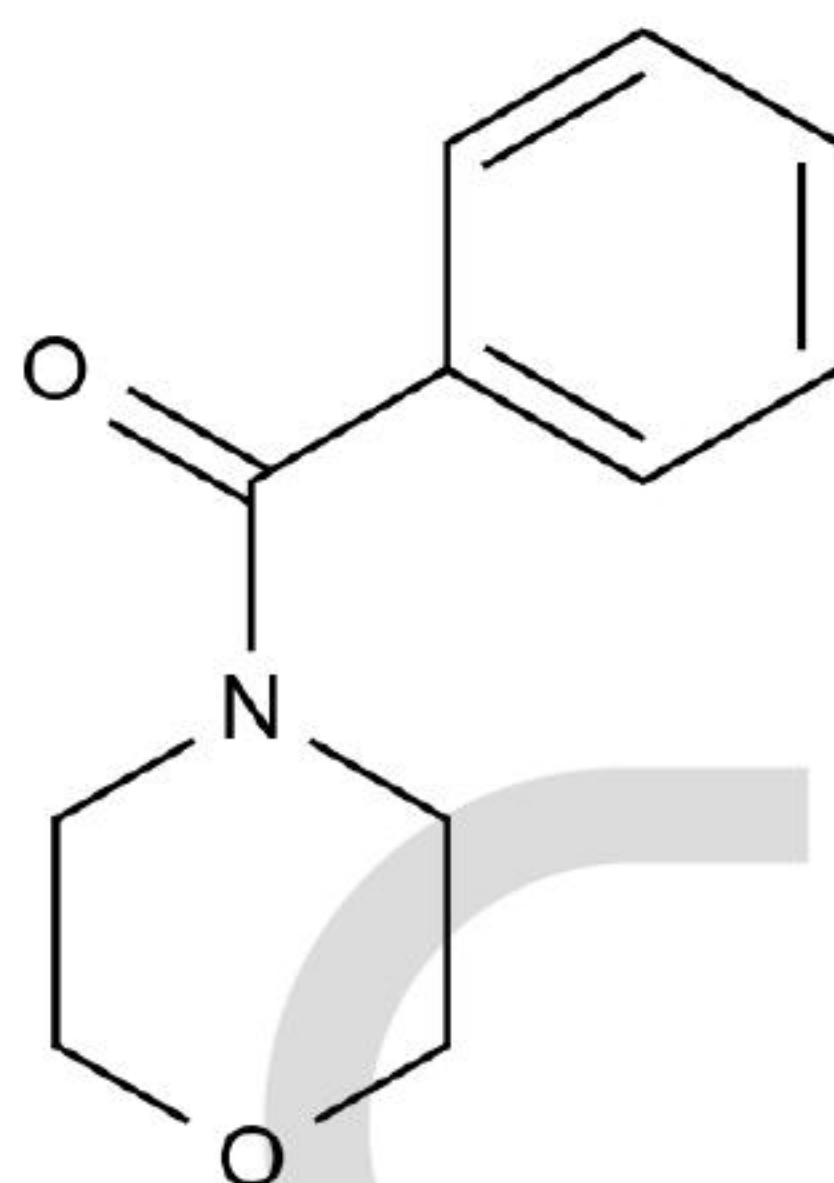


# Certificate of Analysis

## Reference Material & Standard

|                    |                                                 |                   |                                           |
|--------------------|-------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Ketorolac Impurity 38                           | Catalogue Number: | C4X-166938                                |
| Synonyms:          | N/A                                             | Lot Number:       | 0205-RF-0066                              |
| CAS Number:        | 1468-28-6                                       | Expiry Date:      | Feb 18, 2027                              |
| Molecular Formula: | C <sub>11</sub> H <sub>13</sub> NO <sub>2</sub> | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 191.23                                          |                   |                                           |

Chemical Structure:



| Test Items     | Method            | Results     |
|----------------|-------------------|-------------|
| Appearance     | Visual inspection | White Solid |
| Identification | LCMS&HNMR         | Confirmed   |
| Purity         | HPLC              | 99.1%       |
| Assay          | qNMR              | 98.8%       |

## Comment:

Assay was determined by quantitative <sup>1</sup>H-NMR.

## Signature:

Prepared by:

*Nice*

Reviewed by:

*Koi*

Aporoved by General Manager:

*David*

Date: Feb 19, 2024

Date: Feb 19, 2024

Date: Feb 19, 2024

