

# Certificate of Analysis

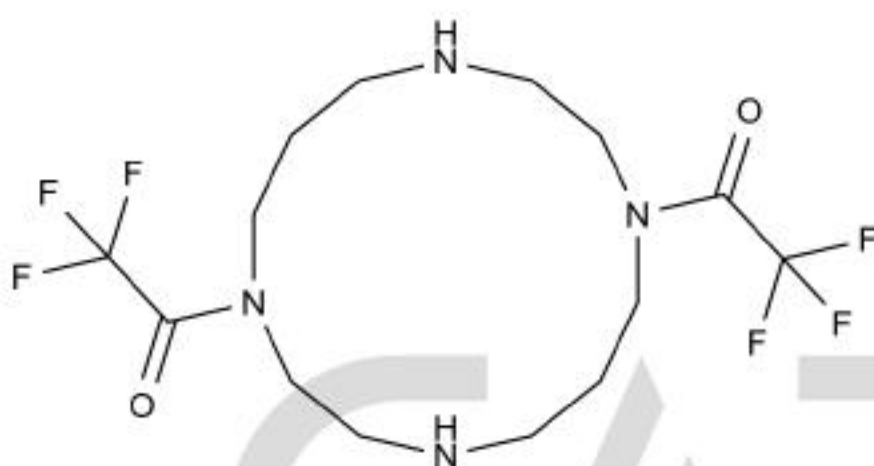
## Reference Material & Standard

|                           |                                                                               |                          |                                           |
|---------------------------|-------------------------------------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b>      | 1,1'-(1,4,8,11-tetraazacyclotetradecane-1,8-diyl)bis(2,2,2-trifluoroethanone) | <b>Catalogue Number:</b> | C1530238                                  |
| <b>Synonyms:</b>          | N/A                                                                           | <b>Lot Number:</b>       | 1113-SA-7055                              |
| <b>CAS Number:</b>        | 548488-50-2                                                                   | <b>Expiry Date:</b>      | Nov 12, 26                                |
| <b>Molecular Formula:</b> | C <sub>14</sub> H <sub>22</sub> F <sub>6</sub> N <sub>4</sub> O <sub>2</sub>  | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 392.34                                                                        |                          |                                           |

Warning:



Chemical Structure:



| Test Items      | Method            | Results   |
|-----------------|-------------------|-----------|
| Appearance      | Visual inspection | Solid     |
| Identification: | LC&HNMR           | Confirmed |
| Purity:         | HPLC              | 97.507%   |

Signature:

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Date: Nov 13, 22

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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 13, 22 | First release.      |

