

# Certificate of Analysis



| Product Identification  |  | Chemical Structure               |
|-------------------------|--|----------------------------------|
| Catalog number          | HB3953   |                                  |
| Compound name           | Lactacystin  |                                  |
| Chemical name           | (2R,3S,4R)-3-Hydroxy-2-[(1S)-1-hydroxy-2-methylpropyl]-4-methyl-5-oxo-2-pyrrolidinecarboxy-N-acetyl-L-cysteine thioester |                                  |
| Batch number            | E1612-1-1  |                                  |
| Batch molecular formula | C <sub>15</sub> H <sub>24</sub> N <sub>2</sub> O <sub>7</sub> S  |                                  |
| Batch molecular weight  | 376.42   |                                  |
| Method                  | QC requirement   | QC Result                        |
| HPLC                    | Reverse Phase HPLC shows >98% purity   | Meets specification: 99.4%       |
| Physical appearance     | White to off-white solid   | Meets specification: White solid |
| Solubility              | Soluble in water, and in DMSO  | Meets specification              |

Produced by

Signature

Passed by

Signature

Date

08-07-21

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.