CATO Research Chemicals Inc.

Make the Tests More Accurate

ISO 17034 : 2016 | ISO 9001 : 2015

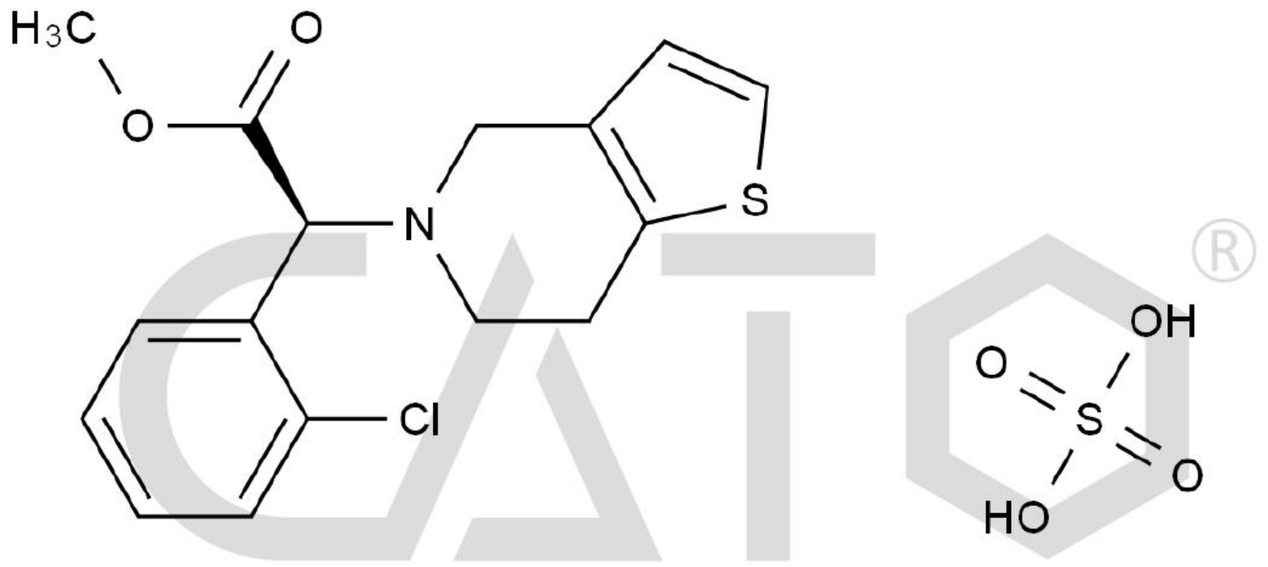
**No.: 202602120084**

# Certificate of Analysis

## Reference Material & Standard

| | | | |
|---|---|---|---|
| **Product Name:** | Clopidogrel Sulfate | **Catalogue Number:** | CCAD300808 |
| **Synonyms:** | N/A | **Lot Number:** | 0225-RH-0027 |
| **CAS Number:** | 120202-66-6 | **Expiry Date:** | Feb 27, 2030 |
| **Molecular Formula:** | $C_{16}H_{16}ClNO_2S$ $H_2O_4S$ | **Storage:** | 2°C ~ 8°C Protected from light and Sealed |
| **Molecular Weight:** | 321.82 98.08 | **Shipping Condition:** | Shipping at Room Temperature |
| **Solubility:** | Acetonitrile | **Warning:** |  |

**Chemical Structure:**




| Test Items | Method | Results |
|---|---|---|
| **Appearance** | Visual inspection | Off-White Solid |
| **Identification** | LCMS&HNMR | Confirmed |
| **Purity** | HPLC | 100.000% |
| **Loss On Drying** | TGA | 0.0743% |
| **Assay** | | 99.9% |
| **Uncertainty** | | ±0.2% |

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## Comment:

*1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):*
*Assay (%) = (100%-Loss On Drying) * Purity HPLC (%) /100%*
*Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.*
*2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.*

**Signature:**

Prepared by: Alice Date: Feb 28, 2026

Reviewed by: Koi Date: Feb 28, 2026

Approved by General Manager: David Date: Feb 28, 2026

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ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-2832

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