

# **CERTIFICATE OF ANALYSIS**

(Certificate No. KMC204017-01)

**Release Date:** 10/03/2025

**Re-test Date:** 09/03/2028

## **Clopidogrel Bisulphate Impurity C**

### **Identification**

**Chemical Name :**

Methyl (-)-(R)-(o-chlorophenyl)[6,7-dihydrothieno[3,2-c]pyridine-5(4H)-yl]acetate hydrogen sulfate ;

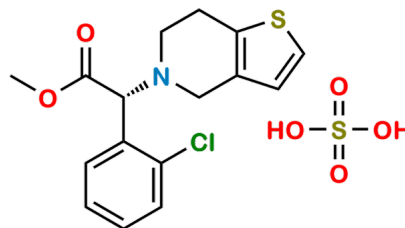
**Alt. Name** : Clopidogrel USP Related Compound C ; Clopidogrel Bisulfate R-Isomer

**CAT No.** : KMC204017

**CAS No.** : 120202-71-3

**Molecular Formula** : C<sub>16</sub>H<sub>16</sub>ClNO<sub>2</sub>S : H<sub>2</sub>O<sub>4</sub>S

**Molecular Weight** : 321.8 : 98.1



### **Analytical Information**

**Batch No.** : CLP-C-22

**Description** : Off White Solid

**HPLC Purity** : 95.70 %

**Weight Loss By TGA** : 1.45 %

**% Potency** : 94.31 %

**Solubility** : Methanol

**Mass** : Confirm

**IR** : Confirm

**<sup>1</sup>H NMR** : Confirm

**<sup>13</sup>C NMR** : Confirm

### **Additional Information**

**Long Term Storage** : Store at 2-8 deg. C for long term storage

**Shipping Condition** : Product is stable to be Shipped at Room Temperature

**% Potency** = [100 - 1.45(Weight Loss By TGA)] x [95.70(HPLC Purity)]/100 = 94.31 %

-<sup>13</sup>C NMR Analysis added on 28.02.2025

-Re-tested on 10.03.2025

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		10/03/2025
Reviewed & Approved By	Quality Control	Jatin Patel		10/03/2025

**Attachments** : COA, HPLC, MASS, <sup>1</sup>HNMR, <sup>13</sup>CNMR, IR and TGA