

CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue C587235 CAS 144750-42-5 Number: Number:

> Synonym: (S)-a-(2-Chlorophenyl)-6,7-

> > dihydrothieno[3,2-c]pyridine-5(4H)-acetic Acid Hydrochloride; SR 26334 Hydrochloride; Clopidogrel EP Impurity A; Clopidogrel

Impurity A; Clopidogrel USP A

Structure:

Product:

CO₂H **HCI**

Clopidogrel Carboxylic Acid

Hydrochloride

Molecular Formula:

C15H15Cl2NO2S

Molecular weight: 344.26

Source of Product:

Synthetic Solubility:

Chloroform (Slightly), DMSO (Slightly), Methanol (Slightly)

Lot 9-RGP-47-4 Number:

Purity: 95%

This Product Is Stable To Be Shipping Condition: Shipped At Room Temperature Storage Condition: -20°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Off-White to Pale Yellow Solid Off-White Solid **Appearance**

NMR Conforms to Structure Conforms

%C: 49.38, %H: 4.65, %N: 3.77 Elemental Analysis Conforms

HPLC Purity Report Result 98.30% (225 nm)

MS Conforms to Structure Conforms

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of \pm 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

C of A Approved **Reviewed By Test Date Retest Date Reviewed By** By Chanell Chu Sarbjeet Kaur Toni Rantanen 3/27/2023 3/25/2027