Product Name: (±)-Clopidogrel hydrochloride
Catalog No.: 2490 Batch No.: 2
CAS Number: 130209-90-4
IUPAC Name: Methyl 2-(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-5-yl)-2-(2-chlorophenyl)acetate hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{16}\text{H}_{16}\text{NO}_{2}\text{SCl.HCl} \)
Batch Molecular Weight: 358.28
Physical Appearance: White solid
Solubility: DMSO to 100 mM ethanol to 100 mM
Storage: Desiccate at +4°C

2. ANALYTICAL DATA

TLC: \( R_f = 0.73 \) (Diethyl ether:Petroleum ether [1:1])
HPLC: Shows 99.8% purity
Chiral HPLC: Shows 0% purity
\(^1\text{H NMR:} \) Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
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<th>Theoretical</th>
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<tbody>
<tr>
<td>C</td>
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<tr>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Information

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Description:
Selective, high affinity P2Y₁₂ receptor antagonist (pKᵢ = 6.9 for hP2Y₁₂ receptor). Inhibits ADP-induced platelet aggregation; potent antithrombotic agent. Requires bioactivation, unlike PSB 0739 (Cat. No. 3983). (+)-Clopidogrel hydrogen sulfate (Cat. No. 1820) also available.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₀H₁₀NO₅SCl.HCl
Batch Molecular Weight: 358.28
Physical Appearance: White solid
Minimum Purity: >99%

Batch Molecular Structure:

Storage: Desiccate at +4°C

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).
Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SALIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: