

Certificate of Analysis

Print Date: Jan 14th 2016

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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: C₁₆H₁₆NO₂SCI.HCI

Batch Molecular Weight: 358.28 **Physical Appearance:** White solid

Solubility: DMSO to 100 mM

ethanol to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.73$ (Diethyl ether:Petroleum ether [1:1])

HPLC: Shows 99.8% purity
Chiral HPLC: Shows 0% purity

¹H NMR: Consistent with structure Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 53.64 4.78 3.91 Found 53.64 4.75 3.88



Product Information

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Description:

Selective, high affinity $P2Y_{12}$ receptor antagonist (pK_i = 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: C₁₆H₁₆NO₂SCI.HCI

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:

SOLIDS: 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:

Savi et al (2001) P2Y₁₂, a new platelet ADP receptor, target of clopidogrel. Biochem.Biophys.Res.Comm. 283 379.

Savi and Herbert (2005) Clopidogrel and ticlopidine: P2Y₁₂ adenosine diphosphate-receptor antagonists for the prevention of atherothrombosis. Semin. Thromb. Haemostas. 31 174.

Kugelgen (2006) Pharmacological profiles of cloned mammalian P2Y-receptor subtypes. Pharmacol.Ther. 110 415. PMID: 16257449.

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