

**Product Name:** (+)-Clopidogrel hydrogen sulfate

**Catalog No.:** 1820

**Batch No.:** 1

CAS Number: 120202-66-6

IUPAC Name: (S)-(+)-Methyl 2-(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-5-yl)-2-(2-chlorophenyl)acetate hydrogen sulfate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>16</sub>H<sub>16</sub>ClNO<sub>2</sub>S.H<sub>2</sub>SO<sub>4</sub>.¼H<sub>2</sub>O

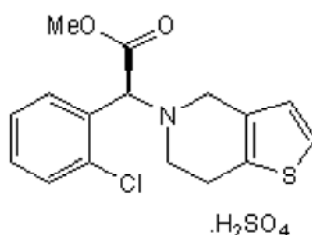
**Batch Molecular Weight:** 424.4

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 100% purity

**Chiral HPLC:** Shows 100% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Optical Rotation:** [α]<sub>D</sub> = +58.9 (Concentration = 1.89, Solvent = Methanol)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	45.28	4.39	3.3
Found	45.33	4.25	3.24

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**Description:**

Selective, high affinity P2Y<sub>12</sub> receptor antagonist. Inhibits ADP-induced platelet aggregation and displays antithrombotic activity. Active enantiomer of (±)-clopidogrel hydrochloride (Cat. No. 2490). Requires bioactivation.

**Physical and Chemical Properties:**

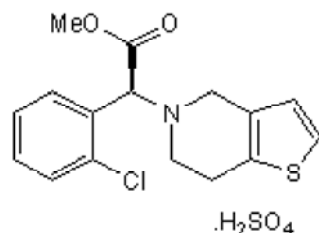
Batch Molecular Formula: C<sub>16</sub>H<sub>16</sub>ClNO<sub>2</sub>S.H<sub>2</sub>SO<sub>4</sub>.¼H<sub>2</sub>O

Batch Molecular Weight: 424.4

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

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

**Savi and Herbert** (2005) Clopidogrel and ticlopidine: P2Y<sub>12</sub> adenosine diphosphate-receptor antagonists for the prevention of atherothrombosis. *Semin.Thromb.Haemostas.* **31** 174.

**Savi et al** (2001) P2Y<sub>12</sub>, a new platelet ADP receptor, target of clopid. *Biochem.Biophys.Res.Comm.* **283** 379.

**Reist et al** (2000) Very low chiral inversion of clopid. in rats: a pharmacokinetic and mechanistic investigation. *Drug Metab.Disp.* **28** 1405.

**Storage:** Store at RT

**Solubility & Usage Info:**

water to 100 mM

DMSO 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.

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