

## Certificate of Analysis

**Product Name:** Ticlopidine hydrochloride

**Catalog No.:** 3931

**Batch No.:** 1

CAS Number: 53885-35-1

EC Number: 258-837-4

IUPAC Name: 5-[(2-Chlorophenyl)methyl]-4,5,6,7-tetrahydrothieno[3,2-c]pyridine hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>14</sub>H<sub>14</sub>ClNS.HCl

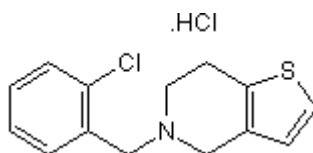
**Batch Molecular Weight:** 300.25

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 100 mM  
ethanol to 75 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 100% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	56	5.04	4.67
Found	55.99	5.13	4.69

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## Product Information

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IUPAC Name: 5-[(2-Chlorophenyl)methyl]-4,5,6,7-tetrahydrothieno[3,2-c]pyridine hydrochloride

**Description:**

Selective P2Y<sub>12</sub> receptor antagonist. Inhibits ADP-induced platelet aggregation and displays antithrombotic activity following oral administration in vivo.

**Physical and Chemical Properties:**

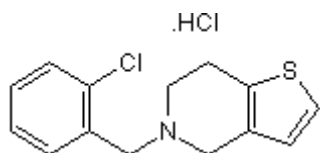
Batch Molecular Formula: C<sub>14</sub>H<sub>14</sub>ClNS.HCl

Batch Molecular Weight: 300.25

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 100 mM  
DMSO to 100 mM  
ethanol to 75 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:**

**Sharis et al** (1998) The antiplatelet effects of ticlopidine and clopidogrel. *Ann.Int.Med.* **129** 394.

**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.

**Michelson** (2008) P2Y<sub>12</sub> antagonism: promises and challenges. *Arterioscler.Thromb.Vasc.Biol.* **28** 33.

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