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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

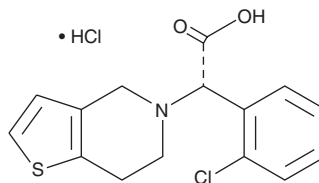
Product Information



Clopidogrel Carboxylic Acid (hydrochloride)

Item No. 17871

CAS Registry No.: 144750-42-5
Formal Name: α S-(2-chlorophenyl)-6,7-dihydro-thieno[3,2-c]pyridine-5(4H)-acetic acid, monohydrochloride
Synonym: SR 26334
MF: $C_{15}H_{14}ClNO_2S \cdot HCl$
FW: 344.3
Purity: $\geq 95\%$
Stability: ≥ 2 years at $-20^{\circ}C$
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that clopidogrel carboxylic acid (hydrochloride) be stored as supplied at $-20^{\circ}C$. It should be stable for at least two years.

Clopidogrel carboxylic acid (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the clopidogrel carboxylic acid (hydrochloride) in the solvent of choice. Clopidogrel carboxylic acid (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of clopidogrel carboxylic acid (hydrochloride) in these solvents is approximately 50 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of clopidogrel carboxylic acid (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of clopidogrel carboxylic acid (hydrochloride) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Clopidogrel (Item No. 13657) is an antithrombic compound whose active metabolite is a selective, irreversible antagonist of the platelet purinergic $P2Y_{12}$ receptor ($IC_{50} = 100$ nM).^{1,2} Clopidogrel inhibits ADP-induced platelet aggregation *ex vivo* and functions as a prodrug whereupon biotransformation to its active thiol metabolite *via* CYP2C19 in the liver enables its anti-aggregating activity.³ An estimated 15% of administered clopidogrel is metabolized by CYP2C19 to the thiol metabolite.⁴ Clopidogrel carboxylic acid is a major inactive metabolite of clopidogrel. Most (85%) of circulating clopidogrel is hydrolyzed by esterases to this carboxylic acid form.⁴ This inactive metabolite can be used as a reference standard for quantitative analysis of clopidogrel metabolism.⁵

References

1. Savi, P., Labouret, C., Delesque, N., *et al.* $P2Y_{12}$, a new platelet ADP receptor, target of clopidogrel. *Biochem. Biophys. Res. Commun.* **283**, 379-83 (2001).
2. von Kügelgen, I. Pharmacological profiles of cloned mammalian $P2Y$ -receptor subtypes. *Pharmacol. Ther.* **110**, 415-32 (2006).
3. Quinn, M.J. and Fitzgerald, D.J. Ticlopidine and clopidogrel. *Circ. J.* **100**, 1667-72 (1999).
4. Brvar, N., Lachance, S., Lévesque, A., *et al.* Comparative bioavailability of two oral formulations of clopidogrel: Determination of clopidogrel and its carboxylic acid metabolite (SR26334) under fasting and fed conditions in healthy subjects. *Acta Pharm.* **64**, 45-62 (2014).
5. Simeone, J.L., Rainville, P.D., and Plumb, R.S. A high sensitivity UPLC/MS/MS method for the analysis of clopidogrel and clopidogrel carboxylic acid metabolite in human K2EDTA plasma, Waters Corporation (2012).

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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Cayman Chemical

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com