



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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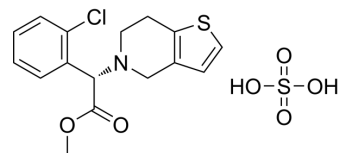
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## Clopidogrel hydrogen sulfate (Standard)

Cat. No.:	HY-17459R
CAS No.:	120202-66-6
Molecular Formula:	C <sub>16</sub> H <sub>18</sub> ClNO <sub>6</sub> S <sub>2</sub>
Molecular Weight:	419.9
Target:	P2Y Receptor; Cytochrome P450
Pathway:	GPCR/G Protein; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 46.7 mg/mL (111.22 mM)  
 H<sub>2</sub>O : 16.67 mg/mL (39.70 mM; Need ultrasonic)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	2.3815 mL	11.9076 mL	23.8152 mL
5 mM	0.4763 mL	2.3815 mL	4.7630 mL		
10 mM	0.2382 mL	1.1908 mL	2.3815 mL		

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Clopidogrel (hydrogen sulfate) (Standard) is the analytical standard of Clopidogrel (hydrogen sulfate). This product is intended for research and analytical applications. Clopidogrel hydrogen sulfate is an antiplatelet agent to prevent blood clots. Clopidogrel hydrogen sulfate inhibits CYP2B6 and CYP2C19 with IC<sub>50</sub>s of 18.2 nM and 524 nM, respectively<sup>[1]</sup>. Clopidogrel hydrogen sulfate is a potent antithrombotic agent that inhibits ADP-induced platelet aggregation<sup>[2]</sup>. Clopidogrel hydrogen sulfate also is an orally active P2Y<sub>12</sub> inhibitor<sup>[5]</sup>.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: 18.2 nM (CYP2B6)<sup>[1]</sup>.  
 IC<sub>50</sub>: 524 nM (CYP2C19)<sup>[1]</sup>

### REFERENCES

[1]. Katsunobu Hagihara, et al. Comparison of human cytochrome P450 inhibition by the thienopyridines prasugrel, Clopidogrel, and ticlopidine. Drug Metab Pharmacokinet. 2008;23(6):412-20.

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- [2]. Jean-Marc Herbert, et al. P2Y<sub>12</sub>, a new platelet ADP receptor, target of Clopidogrel. *Semin Vasc Med*. 2003 May;3(2):113-22.
- [3]. Hai-Lu Wu, et al. Increased endoplasmic reticulum stress response is involved in Clopidogrel-induced apoptosis of gastric epithelial cells. *PLoS One*. 2013 Sep 13;8(9):e74381.
- [4]. Ran Ni, et al. Effect of Different Doses of Acetylsalicylic Acid on the Antithrombotic Activity of Clopidogrel in a Mouse Arterial Thrombosis Model. *Arterioscler Thromb Vasc Biol*. 2018 Oct;38(10):2338-2344.
- [5]. Kuszynski DS, et al. Clopidogrel treatment inhibits P2Y<sub>2</sub>-Mediated constriction in the rabbit middle cerebral artery [published online ahead of print, 2021 Oct 1]. *Eur J Pharmacol*. 2021;174545.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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