



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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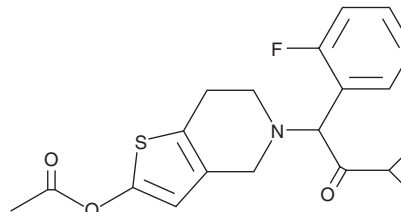
# PRODUCT INFORMATION



## Prasugrel

Item No. 14278

**CAS Registry No.:** 150322-43-3  
**Formal Name:** 2-[2-(acetyloxy)-6,7-dihydrothieno[3,2-c]pyridin-5(4H)-yl]-1-cyclopropyl-2-(2-fluorophenyl)-ethanone  
**Synonyms:** CS 747, LY640315  
**MF:** C<sub>20</sub>H<sub>20</sub>FNO<sub>3</sub>S  
**FW:** 373.4  
**Purity:** ≥98%  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Prasugrel is supplied as a crystalline solid. A stock solution may be made by dissolving the prasugrel in the solvent of choice, which should be purged with an inert gas. Prasugrel is soluble in the organic solvent dimethyl formamide at a concentration of approximately 5 mg/ml. Prasugrel is slightly soluble in DMSO.

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 prasugrel can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of Prasugrel in PBS (pH 7.2) is approximately 0.25 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

Prasugrel is a prodrug form of the platelet purinergic P2Y<sub>12</sub> receptor antagonist R-99224.<sup>1</sup> Prasugrel (0.3 and 3 mg/kg) inhibits *ex vivo* washed platelet aggregation in rat platelet rich-plasma.<sup>2</sup> *In vivo*, prasugrel prevents thrombus formation (ED<sub>50</sub> = 0.68 mg/kg) and increases tail bleeding time in rats. Formulations containing prasugrel have been used in the prevention of blood clots.

### References

1. Sugidachi, A., Asai, F., Yoneda, K., *et al.* Antiplatelet action of R-99224, an active metabolite of a novel thienopyridine-type Gi-linked P2T antagonist, CS-747. *Br. J. Pharmacol.* **132(1)**, 47-54 (2001).
2. Sugidachi, A., Asai, F., Ogawa, T., *et al.* The *in vivo* pharmacological profile of CS-747, a novel antiplatelet agent with platelet ADP receptor antagonist properties. *Br. J. Pharmacol.* **129(7)**, 1439-1446 (2000).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

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