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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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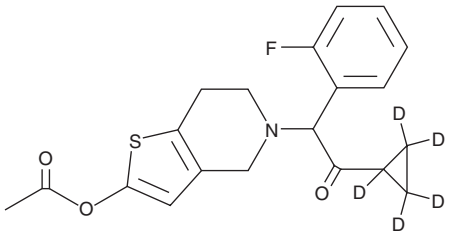
PRODUCT INFORMATION

Prasugrel-d_5

Item No. 28160

CAS Registry No.: 1127252-92-9
Formal Name: 2-[2-(acetyloxy)-6,7-dihydrothieno[3,2-c] pyridin-5(4H)-yl]-1-(cyclopropyl-1,2,2,3,3-d_5)-2-(2-fluorophenyl)-ethanone
MF: $C_{20}H_{15}D_5FNO_3S$
FW: 378.5
Chemical Purity: ≥95% (Prasugrel)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_5); ≤1% d_0
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

Prasugrel-d_5 is intended for use as an internal standard for the quantification of prasugrel (Item No. 14278) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Prasugrel-d_5 is supplied as a solid. A stock solution may be made by dissolving the prasugrel-d_5 in the solvent of choice, which should be purged with an inert gas. Prasugrel-d_5 is slightly soluble in methanol and chloroform.

Description

Prasugrel is a prodrug form of the platelet purinergic $P2Y_{12}$ receptor antagonist R-99224.[1] Prasugrel (0.3 and 3 mg/kg) inhibits *ex vivo* washed platelet aggregation in rat platelet rich-plasma.[2] *In vivo*, prasugrel prevents thrombus formation (ED_{50} = 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 G_i-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).

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