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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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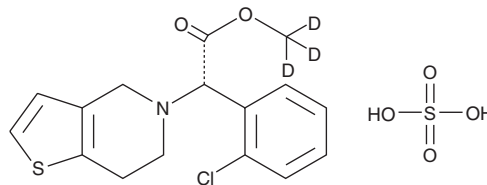
PRODUCT INFORMATION



(S)-(+)-Clopidogrel-d₃ (sulfate)

Item No. 10010673

Formal Name: methyl-d₃ (S)-2-(2-chlorophenyl)-2-(6,7-dihydrothieno[3,2-c]pyridin-5(4H)-yl)acetate sulfate
MF: C₁₆H₁₃ClD₃NO₂S • H₂SO₄
FW: 422.9
Chemical Purity: ≥98% ((S)-(+)-Clopidogrel (sulfate))
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₃); ≤1% d₀
Supplied as: A crystalline 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

(S)-(+)-Clopidogrel-d₃ is intended for use as an internal standard for the quantification of (S)-(+)-clopidogrel (Item No. 21002) 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).

(S)-(+)-Clopidogrel-d₃ (sulfate) is supplied as a crystalline solid. A stock solution may be made by dissolving the (S)-(+)-clopidogrel-d₃ (sulfate) in the solvent of choice. (S)-(+)-Clopidogrel-d₃ (sulfate) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of (S)-(+)-clopidogrel-d₃ (sulfate) in ethanol is approximately 3 mg/ml and approximately 10 mg/ml in DMSO and DMF.

Description

(S)-(+)-Clopidogrel is the functional enantiomer of clopidogrel (Item No. 13657) and a prodrug whose thiol metabolite antagonizes purine binding to the platelet purinergic receptor P2Y₁₂ (K_i = 316 nM in human platelets).¹ It is metabolized by the cytochrome P450 (CYP) isoform CYP2C19 in rat liver and inhibits ADP-induced platelet aggregation *ex vivo*.² Formulations containing (S)-(+)-clopidogrel have been used in combination with aspirin to prevent vascular ischemic events in patients with acute coronary syndromes.

References

1. Savi, P., Labouret, C., Delesque, N., *et al.* P2Y₁₂, a new platelet ADP receptor, target of clopidogrel. *Biochem. Bioph. Res. Commun.* **283**(2), 379-383 (2001).
2. Quinn, M.J. and Fitzgerald, D.J. Ticlopidine and clopidogrel. *Circulation* **100**(15), 1667-1672 (1999).

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.

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