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Zuschläge

- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

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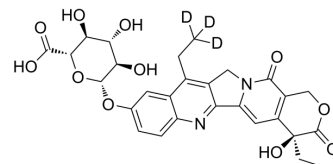
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SN-38 glucuronide-d₃

Cat. No.:	HY-W653919
Molecular Formula:	C ₂₈ H ₂₅ D ₃ N ₂ O ₁₁
Molecular Weight:	571.55
Target:	Isotope-Labeled Compounds; Drug Metabolite
Pathway:	Others; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

SN-38 glucuronide-d₃ is deuterium labeled SN-38 glucuronide. SN-38 glucuronide is an inactive metabolite of the anticancer active molecule Irinotecan (HY-16562) and has toxic effects on the gastrointestinal tract. Irinotecan is a topoisomerase I inhibitor which can be used for researching colon and rectal cancer^{[1][2][3][4]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Atasilp C, et al. Determination of irinotecan, SN-38 and SN-38 glucuronide using HPLC/MS/MS: Application in a clinical pharmacokinetic and personalized medicine in colorectal cancer patients. *J Clin Lab Anal*. 2018 Jan;32(1):e22217.
- [3]. Pellock SJ, et al. Three structurally and functionally distinct β -glucuronidases from the human gut microbe *Bacteroides uniformis*. *J Biol Chem*. 2018;293(48):18559-18573.
- [4]. Wallace BD, et al. Alleviating cancer drug toxicity by inhibiting a bacterial enzyme. *Science*. 2010 Nov 5;330(6005):831-5.
- [5]. Ohtsuka K, et al. Intracellular conversion of irinotecan to its active form, SN-38, by native carboxylesterase in human non-small cell lung cancer[J]. *Lung Cancer*, 2003, 41(2): 187-198.

Caution: Product has not been fully validated for medical applications. For research use only.

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