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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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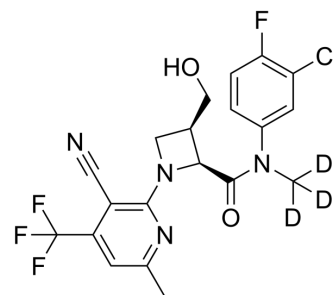
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Antiproliferative agent-53-d₃

Cat. No.:	HY-163816
CAS No.:	2923508-77-2
Molecular Formula:	C ₂₀ H ₁₄ D ₃ ClF ₄ N ₄ O ₂
Molecular Weight:	459.84
Target:	Cytochrome P450
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antiproliferative agent-53-d ₃ (Compound C1) is an inhibitor for theta-mediated end joining (TMEJ) in HEK293 cell with an IC ₅₀ of 0.14 μM. Antiproliferative agent-53-d ₃ is the inhibitor for CYP2C19 and CYP2C9 with IC ₅₀ of 0.77 and 3.1 μM. Antiproliferative agent-53-d ₃ inhibits the proliferation of DNA repair-compromised cells, with IC ₅₀ of 8.1 μM for BRCA2 ^{-/-} DLD-1. Antiproliferative agent-53-d ₃ exhibits good pharmacokinetic characteristics in CD-1 mice ^[1] .			
IC ₅₀ & Target	CYP2C19 0.77 μM (IC ₅₀)	CYP2C9 3.1 μM (IC ₅₀)	CYP3A4 14.6 μM (IC ₅₀)	CYP2D6 17.3 μM (IC ₅₀)

REFERENCES

[1]. Wang Y, et al., Discovery of 3-hydroxymethyl-azetidine derivatives as potent polymerase theta inhibitors. Bioorg Med Chem. 2024 Apr 1;103:117662.

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

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