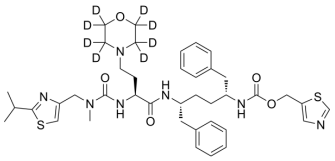
Cobicistat-d_8

Cat. No.:	HY-10493S
CAS No.:	2699607-48-0
Molecular Formula:	$C_{40}H_{45}D_8N_7O_5S_2$
Molecular Weight:	784.07
Target:	Isotope-Labeled Compounds; HIV; Cytochrome P450
Pathway:	Others; Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cobicistat-d8 (GS-9350-d8) is a deuterated version of Cobicistat (HY-10493). Cobicistat is a potent and selective inhibitor of cytochrome P450 3A (CYP3A) with IC_{50} values of 30-285 nM. Cobicistat is a pharmacokinetic enhancer that enhances the absorption of anti-HIV active molecules[1][2][3].

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. Temesgen Z. Cobicistat, a pharmacoenhancer for HIV treatments. Drugs Today (Barc). 2013 Apr;49(4):233-7.

[3]. Lianhong Xu, et al. Cobicistat (GS-9350): A Potent and Selective Inhibitor of Human CYP3A as a Novel Pharmacoenhancer. ACS Med. Chem. Lett., 2010, 1 (5), pp 209–213

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