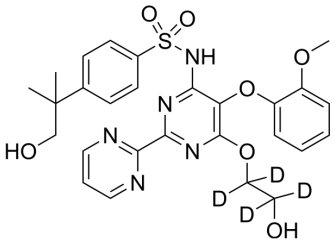
Hydroxy Bosentan-d_4

Cat. No.:	HY-121385S1
CAS No.:	1065472-91-4
Molecular Formula:	$C_{27}H_{25}D_4N_5O_7S$
Molecular Weight:	571.64
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Hydroxy Bosentan-d_4 is deuterium labeled Hydroxy bosentan. Hydroxy bosentan (Ro 48-5033) is a primary metabolite of Bosentan (BOS) metabolized by the cytochrome P450 system in the liver. Ro 48-5033 assists BOS pharmacologically, retaining 10%-20% activities[1].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Chen M, et al. Comparison of the inhibitory effect of ketoconazole, voriconazole, fluconazole, and itraconazoleon the pharmacokinetics of bosentan and its corresponding active metabolite hydroxy bosentanin rats. Xenobiotica. 2019 Jul 3:1-8.

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

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