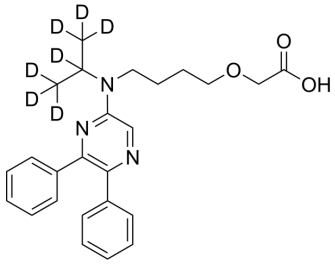
MRE-269-d7

Cat. No.:	HY-79593S2
CAS No.:	1265295-20-2
Molecular Formula:	$C_{25}H_{22}D_7N_3O_3$
Molecular Weight:	426.56
Target:	Prostaglandin Receptor
Pathway:	GPCR/G Protein

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



BIOLOGICAL ACTIVITY

Description	MRE-269-d_7 is deuterium labeled MRE-269 (HY-79593). MRE-269 is an active metabolite of selexipag, and acts as a selective IP receptor agonist[1][2].
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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

[2]. Fuchikami C, et al. A comparison of vasodilation mode among selexipag (NS-304; [2-{4-[(5,6-diphenylpyrazin-2-yl)(isopropyl)amino]butoxy}-N-(methylsulfonyl)acetamide]), its active metabolite MRE-269 and various prostacyclin receptor agonists in rat, porcine and human pulmonary arteries. Eur J Pharmacol. 2017 Jan 15;795:75-83.

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