## **Prostaglandin E2-d**<sub>9</sub>

Cat. No.:	HY-101952S1	0
CAS No.:	1356347-42-6	Дон
Molecular Formula:	$C_{20}H_{23}D_{9}O_{5}$	
Molecular Weight:	361.52	
Target:	Prostaglandin Receptor; Endogenous Metabolite; Isotope-Labeled Compounds	
Pathway:	GPCR/G Protein; Metabolic Enzyme/Protease; Others	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	НО ОН О О О

Inhibitors

BIOLOGICAL ACTIVITY		
Description	Prostaglandin E2-d <sub>9</sub> is the deuterium labeled Prostaglandin E2. Prostaglandin E2 (PGE2) is a hormone-like substance that participate in a wide range of body functions such as the contraction and relaxation of smooth muscle, the dilation and constriction of blood vessels, control of blood pressure, and modulation of inflammation[1][2].	
IC <sub>50</sub> & Target	EP	
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 <sup>[1]</sup> . 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;53(2):211-216.

[2]. Chouaib S, et al. The mechanisms of inhibition of human IL 2 production. II. PGE2 induction of suppressor T lymphocytes. J Immunol. 1984 Apr;132(4):1851-7.

[3]. Fernandez-Repollet E, et al. In vivo effects of prostaglandin E2 and arachidonic acid on phagocytosis of fluorescent methacrylate microbeads by rat peritoneal macrophages. J Histochem Cytochem. 1982 May;30(5):466-70.

[4]. Haylor J, et al. Renal vasodilator activity of prostaglandin E2 in the rat anaesthetized with pentobarbitone. Br J Pharmacol. 1982 May;76(1):131-7.

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

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## Product Data Sheet