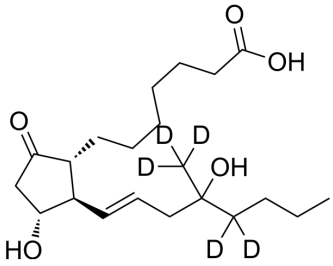
Misoprostol acid-d_5

Cat. No.:	HY-118189S
CAS No.:	1337917-44-8
Molecular Formula:	$C_{21}H_{31}D_5O_5$
Molecular Weight:	373.54
Target:	Prostaglandin Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Misoprostol acid-d_5 is deuterium labeled Misoprostol acid. Misoprostol acid is an active metabolite of Misoprostol. Misoprostol is a synthetic analogue of prostaglandin E1 (PGE1), extensively absorbed, and undergoes rapid de-esterification to Misoprostol acid in the gastrointestinal tract after oral administration. Misoprostol can be used for non-steroidal anti-inflammatory drug-induced (NSAID) gastric ulcers[1]. Misoprostol is an oral agent used to induce labor[2].
IC_{50} & Target	EP

REFERENCES

[1]. Vijaya Bharathi D, et al. Development and validation of highly sensitive method for determination of misoprostol free acid in human plasma by liquid chromatography-electrospray ionization tandem mass spectrometry: application to a clinical pharmacokinetic study. J Chromatogr B Analyt Technol Biomed Life Sci. 2011 Sep 15;879(26):2827-33.

[2]. Schmidt-Hansen M, et al. Simultaneous compared to interval administration of mifepristone and misoprostol for medical abortion up to 10+0 weeks' gestation: a systematic review with meta-analyses. BMJ Sex Reprod Health. 2020 Feb 20. pii: bmjsrh-2019-200448.

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