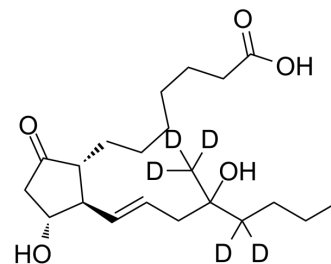


## Misoprostol acid-d5

Cat. No.:	HY-118189S
CAS No.:	1337917-44-8
Molecular Formula:	C <sub>21</sub> H <sub>31</sub> D <sub>5</sub> O <sub>5</sub>
Molecular Weight:	373.54
Target:	Prostaglandin Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Misoprostol acid D5 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<sup>[1]</sup>. Misoprostol is an oral agent used to induce labor<sup>[2]</sup>.

### 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.

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

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