Misoprostol acid

 Cat. No.:
 HY-118189

 CAS No.:
 112137-89-0

 Molecular Formula:
 $C_{21}H_{36}O_5$

Molecular Weight: 368.51

Target: Prostaglandin Receptor

Pathway: GPCR/G Protein

Storage: Solution, -20°C, 2 years

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro DMSO: 50 mg/mL (135.68 mM; Need ultrasonic and warming)

DIULU	GICAL	ACI	IVIII

Description	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
In Vivo	Unlike the Misoprostol, Misoprostol acid is detectable in plasma. Misoprostol is a lipophilic methyl ester prodrug and is readily metabolized to the free acid, which is the biologically active form. Misoprostol is used worldwide for a variety of indications in obstetrics and gynecology. Misoprostol has both gastric antisecretory and mucosal protective effects ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

Tel: 609-228-6898 Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Page 2 of 2 www.MedChemExpress.com