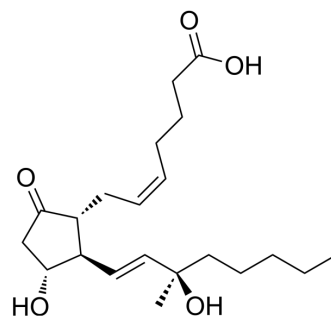


## Arbaprostil

Cat. No.:	HY-129471
CAS No.:	55028-70-1
Molecular Formula:	C <sub>21</sub> H <sub>34</sub> O <sub>5</sub>
Molecular Weight:	366.49
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Arbaprostil is an orally active PGE1 (HY-B0131) analog. Arbaprostil protects the gastrointestinal mucosa from stomach acid and other irritants, promotes healing rate of gastric ucler through the antisecretory effect <sup>[1][2]</sup> .	
In Vivo	Arbaprostil (1-100 µg/kg, i.v., single dose) promotes bicarbonate secretion in dose-dependent manner in proximal duodenum, promotes duodenal healing rates and prevents duodenced mucosa damage in wistar rats <sup>[1]</sup> . Arbaprostil (1-100 µg/kg, p.o., single dose) pH-dependently inhibits gastric secretion, promotes the gastric ucler healing (3-10 µg/kg, p.o., twice daily for 4 weeks) in Donryu rats <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Wistar rat <sup>[1]</sup>
	Dosage:	1-100 µg/kg
	Administration:	i.v., single dose
	Result:	Increased secretion of HCO <sub>3</sub> <sup>+</sup> .
	Animal Model:	Donryu rats <sup>[2]</sup>
	Dosage:	1-100 µg/kg
	Administration:	1-100 µg/kg, p.o. and i.d. (intraduodenally), single dose; 3-10 µg/kg, p.o., twice daily for 4 weeks
	Result:	Inhibited the gastric secretion when intraduodenally administrated. Increased the gastric secretion when orally administrated. Accelerated the healing rate of gastric ucler.

### REFERENCES

[1]. Li JY, Nagata T, Yoshida M, Yagi N, Katoh K, Haramoto T, Itoh K, Iwasaki A, Matsuo Y. Effect of 15(R)-15-methyl PGE2 (arbaprostil) on duodenal bicarbonate secretion in rat. Gastroenterol Jpn. 1989 Feb;24(1):8-11.

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[2]. Okabe S, et al., Effects of 15(R)-15-methyl prostaglandin E2 (arbaprostil) on gastric secretion and various gastric lesions induced in rats. Jpn J Pharmacol. 1986 Feb;40(2):329-37.

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

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