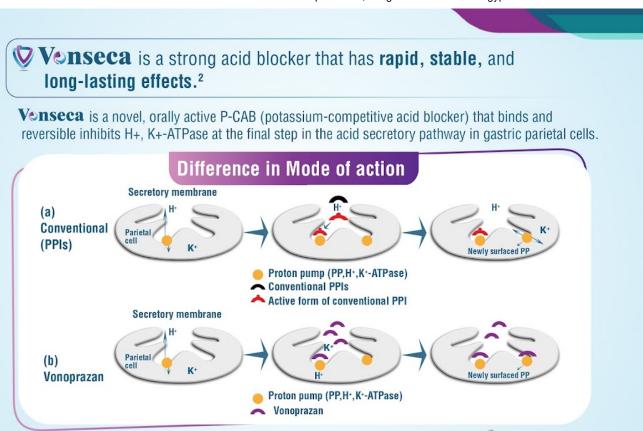


Vonseca® is the first full range Generic of Vonoprazan In Egypt



https://zetapharma.info/vonseca/ 1/15





Shaping The Future

https://zetapharma.info/vonseca/

2- Oshima el al, J Neuogastroenterol Moti, 2018



The mechanistic and pharmacologic differences of PPI and Vonoprazan are summarized in the table below.3

	Vonoprazan	PPIs
Activation and stability	No activation required and stable in acidic conditions	Prodrug that require acid for activation & unstable in acidic conditions
Binding to proton pump	Reversibly blocks active and inactive proton pumps with slow dissociation	Irreversibly blocks active proton pumps
Plasma half life	Long (T _{1/2}) : 7 hours	Short (T _{1/2}): 2 hours
Onset of action	Achieved target 24-hour acid suppression within 2 house	Take 4 to 5 days to maximum
Dosing restrictions	Dosing independent of meal	Generally administered 30 to 60 minutes before a meal
Inter-patient variability	Primary metabolism via CYP3A4/5	Primary metabolism via CYP2C19



- Rapid onset of action
- Potent acid control
- Durable 24-hr activity
- Fewer side effects/drug-drug interactions

ADVANTAGES

UNMET NEEDS

- Slow onset of action
- Limited potency
- Limited duration of activity
- Safety issues/ drug-drug interactions

3- PHATHOM PHARMACEUTICAL S, INC. For the year ended December 31, 2019



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About Vonoprazan & P-CABs

VONOPRAZAN is a first-in-class <u>potassium-competitive acid blocker</u>. It was approved in the Japanese market in February 2015.

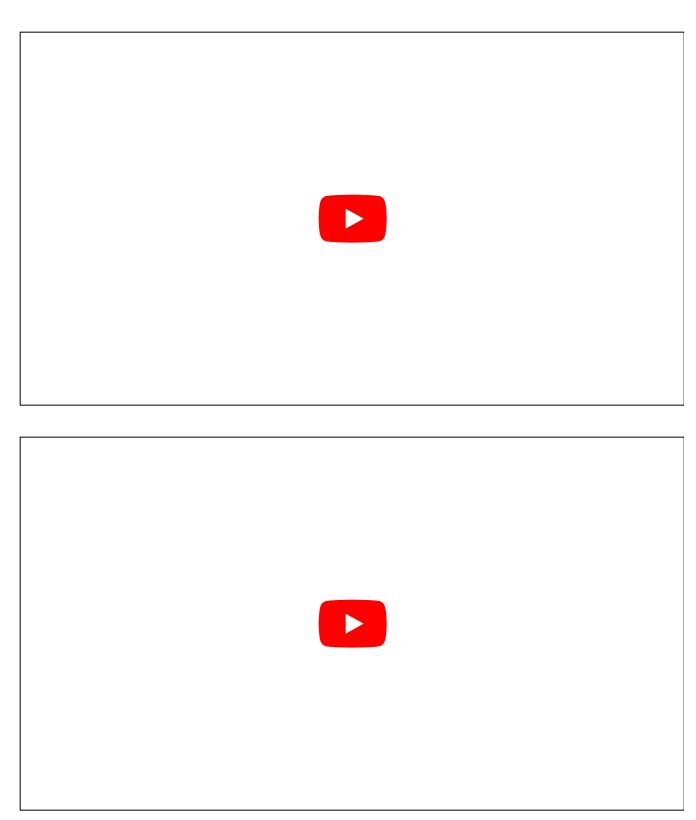
Vonoprazan is used in form of the <u>fumarate</u> for the treatment of <u>gastroduodenal</u> <u>ulcer</u> (including some drug-induced peptic ulcers) and reflux <u>esophagitis</u>, and can be combined with antibiotics for the eradication of <u>Helicobacter pylori</u>.

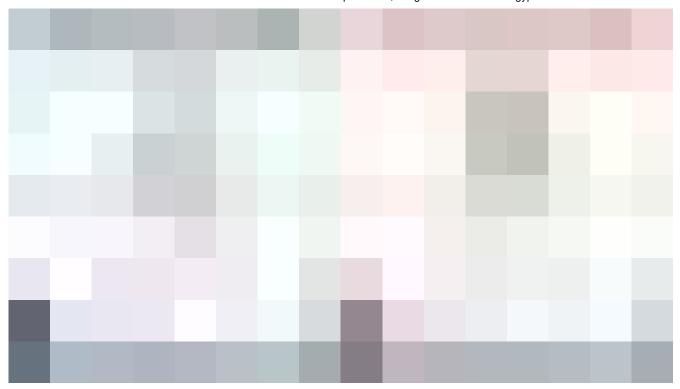
In 03-May-2022 The (FDA) has approved 2 VONOPRAZAN-based medications for the treatment of Helicobacter pylori (H. pylori) infection.

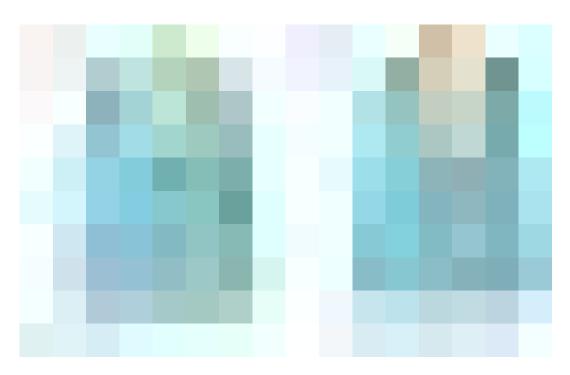
The approval of **VONOPRAZAN** treatment regimens offers physicians and patients 2 therapeutic options that showed superior eradication rates compared to proton pump inhibitor-based (PPI) lansoprazole triple therapy in the overall patient population in a pivotal trial.

VONOPRAZAN belongs to a class of products known as PCAB, or potassium-competitive acid blockers. By blocking the potassium-binding site of gastric hydrogen potassium ATPase (also known as the proton pump), which is the enzyme largely responsible for acidification of the stomach, it's designed to overcome many of the perceived weaknesses of traditional proton pump inhibitor therapy.







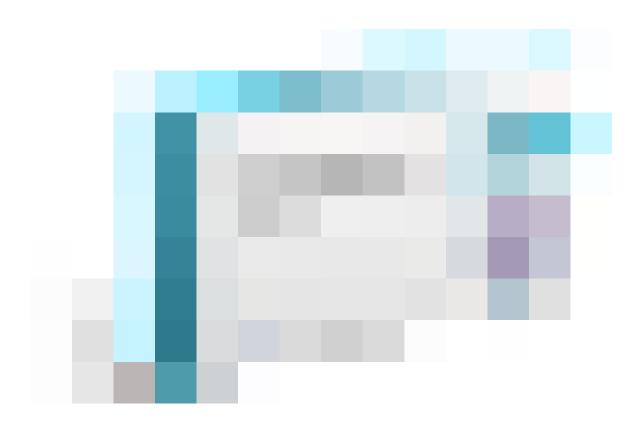


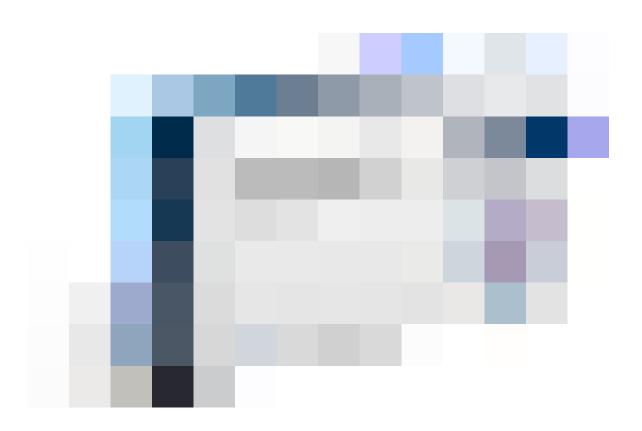


PPIs	P-CABs
Prodrug and unstable in acid	No need for conversion and stable in acid
Irreversible binding to the external surface of proton pump	Reversible binding to K+ binding domain of proton pump
Need to stimulate proton pump	No food effect
Inhibit activated proton pump only	Block both resting and stimulated proton pump
Take 4~5days to maximal effect	On demand control due to Fast onset

About Vonseca®

As per its commitment to offer the latest treatment for the Egyptian's patients., in Jan 2022 Zeta Pharma was the first Egyptian pharmaceutical company to introduce two concentrations of 10mg and 20 mg of vonoprazan in the Egyptian market through its brand Vonseca.®





About Zeta Pharma

ZETA PHARMA® was established in 2010 to represent an added value in the pharmaceutical industry in Egypt through:

Establishing one of the best manufacturing facilities in the Middle East referenced by the international standards (GMP).

Building a well selected and unique product portfolio in the main therapeutic areas, which ensure that community has the most efficient and up-to-date treatment that directly contributes to improving health care and quality of their life.

Beginning in 2015, ZETA PHARMA® actively contribute to treating Hepatitis C virus in Egypt through its products:

Sofocivir TM, Zetaciver TM, Sofocivir plus TM

