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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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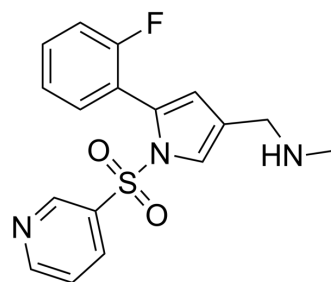
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Vonoprazan (Standard)

Cat. No.:	HY-100007R
CAS No.:	881681-00-1
Molecular Formula:	C ₁₇ H ₁₆ FN ₃ O ₂ S
Molecular Weight:	345.39
Target:	Proton Pump; Bacterial
Pathway:	Membrane Transporter/Ion Channel; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Vonoprazan (Standard) is the analytical standard of Vonoprazan. This product is intended for research and analytical applications. Vonoprazan (TAK-438 free base), a proton pump inhibitor (PPI), is a potent and orally active potassium-competitive acid blocker (P-CAB), with antisecretory activity. Vonoprazan inhibits H ⁺ ,K ⁺ -ATPase activity in porcine gastric microsomes with an IC ₅₀ of 19 nM at pH 6.5. Vonoprazan is developed for the research of acid-related diseases, such as gastroesophageal reflux disease and peptic ulcer disease. Vonoprazan can be used for eradication of Helicobacter pylori ^{[1][2][3]} .
IC₅₀ & Target	IC ₅₀ : 19 nM (porcine gastric H ⁺ ,K ⁺ -ATPase, at pH 6.5) ^[2]

REFERENCES

- [1]. Arikawa Y, et al. Discovery of a novel pyrrole derivative 1-[5-(2-fluorophenyl)-1-(pyridin-3-ylsulfonyl)-1H-pyrrol-3-yl]-N-methylmethanamine fumarate (TAK-438) as a potassium-competitive acid blocker (P-CAB). *J Med Chem*, 2012, 55(9), 4446-4456.
- [2]. Hori Y, et al. 1-[5-(2-Fluorophenyl)-1-(pyridin-3-ylsulfonyl)-1H-pyrrol-3-yl]-N-methylmethanamine monofumarate (TAK-438), a novel and potent potassium-competitive acid blocker for the treatment of acid-related diseases. *J Pharmacol Exp Ther*, 2010, 335(1), 231-238.
- [3]. Sugimoto M, et al. Role of Vonoprazan in Helicobacter pylori Eradication Therapy in Japan. *Front Pharmacol*. 2019 Jan 15;9:1560.

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

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