

Product Name	: Azeloprazole
Synonyms	: E-3710;Z-215
Cat No.	: M16817
CAS Number	: 955095-45-1
Molecular Formula	: C ₂₂ H ₂₇ N ₃ O ₄ S
Formula Weight	: 429.54
Chemical Name	: (R)-2-(((4-((2,2-Dimethyl-1,3-dioxan-5-yl)methoxy)-3,5-dimethylpyridin-2-yl)methyl)sulfinyl)-1H-benzimidazole
Description	: A novel potent proton pump inhibitor that irreversibly inhibits H ⁺ ,K ⁺ -ATPase activity with IC ₅₀ of 0.28 uM; inhibits histamine-stimulated gastric acid secretion with ED ₅₀ of 0.18-0.2 mg/kg in gastric fistula model in dogs, displays 2.3-fold more potency over Esomeprazole. Other Indication Phase 1 Clinical
Pathway	: Membrane Transporter/Ion Channel
Target	: Proton Pump
Receptor	: Proton Pump
Solubility	: 10 mM in DMSO
SMILES	: <chem>CC1=CN=C(C(=C1OCC2COC(OC2)(C)C)C)CS(=O)C3=NC4=CC=CC=C4N3</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Kodama K, et al. J Pharmacol Exp Ther. 2010 Aug;334(2):395-401. | 2. Toda R, et al. J Clin Pharmacol. 2017 Nov 28. doi: 10.1002/jcph.1038. | 3. Toda R, et al. Xenobiotica. 2017 Nov 2:1-15. doi: 10.1080/00498254.2017.1390625.