

Omeprazole, H⁺/K⁺ATPase inhibitor

Catalog	Unit
TBI2822-50MG	50 mg
TBI2822-500MG	500 mg

Product Details

Formal Name: 6-methoxy-2-[[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]-1H-benzimidazole

Molecular Formula: C₁₇H₁₉N₃O₃S

Formula Weight: 345.40

CAS Number: 73590-58-6

Purity: >98%

Formulation: powder

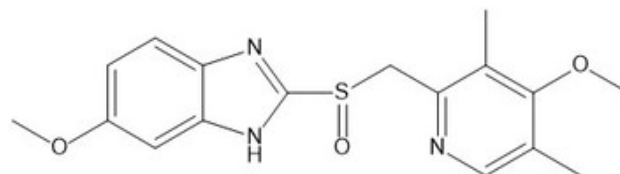
Solubility: Soluble in DMSO (up to 30 mg/ml) or in Ethanol (up to 5 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.

Applications

H⁺/K⁺ATPase inhibitor



Functions

H⁺,K⁺-ATPase inhibitor (IC₅₀ = 5.8 μM). Clinically useful antisecretory and antiulcer agent. Potent inhibitor of CYP2C19 (K_i=3.1 mM). Inhibits swelling-dependent chloride channels. Facilitates oral bioavailability of bioactive peptides such as oxytocin by raising stomach pH. Displays broad spectrum antiviral activity. Enhances efficacy of remdesivir (10-fold).

Application Procedures

First dissolved in DMSO (up to 30 mg/ml) or in Ethanol (up to 5 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.