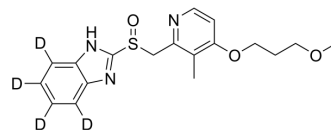


Rabeprazole-d₄

Cat. No.:	HY-B0656S		
CAS No.:	934295-48-4		
Molecular Formula:	C ₁₈ H ₁₇ D ₄ N ₃ O ₃ S		
Molecular Weight:	363.47		
Target:	Proton Pump; Apoptosis		
Pathway:	Membrane Transporter/Ion Channel; Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Rabeprazole-d ₄ is a deuterium labeled Rabeprazole. Rabeprazole is a second-generation proton pump inhibitor (PPI) that irreversibly inactivates gastric H ⁺ /K ⁺ -ATPase. Rabeprazole induces apoptosis. Rabeprazole acts as an uridine nucleoside ribohydrolase (UNH) inhibitor with an IC ₅₀ of 0.3 μM. Rabeprazole can be used for the research of gastric ulcerations and gastroesophageal reflux[1][2][3].
IC₅₀ & Target	Pump inhibitor (PPI); UNH ^[1] H ⁺ /K ⁺ -ATPase; Apoptosis ^[2]

REFERENCES

- [1]. Tara A Shea, et al. Identification of Proton-Pump Inhibitor Drugs That Inhibit Trichomonas Vaginalis Uridine Nucleoside Ribohydrolase. *Bioorg Med Chem Lett*. 2014 Feb 15;24(4):1080-4.
- [2]. Mengli Gu, et al. Rabeprazole Exhibits Antiproliferative Effects on Human Gastric Cancer Cell Lines. *Oncol Lett*. 2014 Oct;8(4):1739-1744.
- [3]. Aly A M Shaalan, et al. Supplement With Calcium or Alendronate Suppresses Osteopenia Due to Long Term Rabeprazole Treatment in Female Mice: Influence on Bone TRAP and Osteopontin Levels. *Front Pharmacol*. 2020 May 13;11:583.

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

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