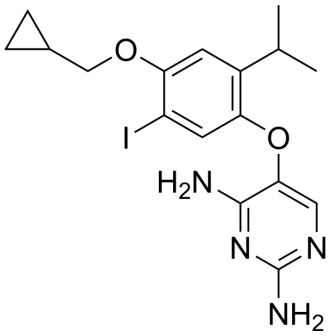
DHFR-IN-17

Cat. No.:	HY-162358
Molecular Formula:	$C_{17}H_{21}IN_4O_2$
Molecular Weight:	440.28
Target:	Bacterial; Dihydrofolate reductase (DHFR)
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DHFR-IN-17 (compound j9) is an oral active SaDHFR inhibitor with the IC_{50} of 0.97 nM. DHFR-IN-17 shows antibacterial activity against S. aureus with the minimum inhibitory concentration of 0.031 μg/mL[1].
In Vivo	DHFR-IN-17 (compound j9) (2□5 and 10mg/kg, oral gavagefor 3 consecutive days) alleviates the skin infection damage in MRSA-induced epidermal infections in C57 mice[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	MRSA-induced epidermal infections in C57 mice[1]
Dosage:	2□5 and 10mg/kg
Administration:	Oral gavagefor 3 consecutive days
Result:	Alleviates the skin infection damage.

REFERENCES

[1]. Huang Z, et al. Design, Synthesis, and Biological Evaluation of 5-(5-Iodo-2-isopropyl-4-methoxyphenoxy)pyrimidine-2,4-diamine (AF-353) Derivatives as Novel DHFR Inhibitors against Staphylococcus aureus. J Med Chem. Published online March 11, 2024.

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