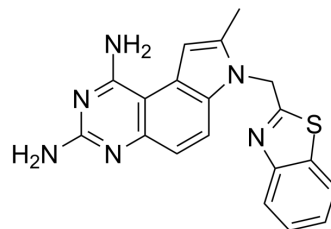


DHFR-IN-9

Cat. No.:	HY-156123
CAS No.:	3032441-13-4
Molecular Formula:	C ₁₉ H ₁₆ N ₆ S
Molecular Weight:	360.44
Target:	Dihydrofolate reductase (DHFR); Bacterial
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DHFR-IN-9 (compound 8A) is a dihydrofolate reductase (DHFR) inhibitor that affects purine and thymidylate biosynthesis in cell proliferation and growth. DHFR-IN-9 inhibits methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) ATCC 43300 (IC ₅₀ =0.25 µg/mL) and has anti-infective effects in mouse models of systemic infection and thigh infection caused by it (dose: 2.5 mg/kg, 5 mg/kg; ip). DHFR-IN-9 has stronger anticancer activity than paclitaxel (Y-B0015) in a mouse model of breast cancer (dose: 2.5 mg/kg; ip; once every 3 days) ^[1] .
IC ₅₀ & Target	IC ₅₀ : 0.25 µg/mL (MRSA ATCC 43300) ^[1]

REFERENCES

[1]. Zhu Z, et al. Exploration and Biological Evaluation of 1, 3-Diamino-7 H-pyrrol [3, 2-f] quinazoline Derivatives as Dihydrofolate Reductase Inhibitors[J]. Journal of Medicinal Chemistry, 2023. . .

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

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