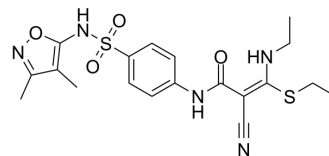


Dihydropteroate synthase-IN-1

Cat. No.:	HY-147721
CAS No.:	2418026-70-5
Molecular Formula:	C ₁₉ H ₂₃ N ₅ O ₄ S ₂
Molecular Weight:	449.55
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Dihydropteroate synthase-IN-1 (compound 5g) is a potent dihydropteroate synthase (DHPS) inhibitor. Dihydropteroate synthase-IN-1 shows antimicrobial activities and antifungal activity. Dihydropteroate synthase-IN-1 inhibits cytochromes P450. Dihydropteroate synthase-IN-1 can be used as diagnostic radio imaging material ^[1] .
IC₅₀ & Target	DHPS ^[1]
In Vitro	Dihydropteroate synthase-IN-1 (compound 5g) shows antimicrobial activities with MIC of 24.3, 26.3, 22.8, 20.6, 19.6, 23.2 µg/ml for <i>S. pneumoniae</i> , <i>B. Subtilis</i> , <i>S. epidermidis</i> , <i>E. coli</i> , <i>P. vulgaris</i> , <i>K. pneumoniae</i> , respectively ^[1] . Dihydropteroate synthase-IN-1 shows antifungal activity with MIC of 21.6, 20.3, 20.4 µg/ml for <i>A. fumigates</i> , <i>S. racemosum</i> , <i>G. candidum</i> , respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Nasr T, et al. New acrylamide-sulfisoxazole conjugates as dihydropteroate synthase inhibitors. *Bioorg Med Chem*. 2020 May 1;28(9):115444.

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

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