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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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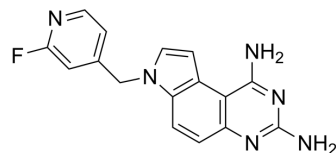
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Fluorofolin

Cat. No.:	HY-162475
CAS No.:	2757070-32-7
Molecular Formula:	C ₁₆ H ₁₃ FN ₆
Molecular Weight:	308.31
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	Fluorofolin is a dihydrofolate reductase (DHFR) inhibitor with an IC ₅₀ of 2.5 nM. Fluorofolin exhibits significant activity against <i>P. aeruginosa</i> ^[1] .
In Vitro	Fluorofolin exhibits potent activity against <i>P. aeruginosa</i> PA14 (MIC of 3.1 µg/ml). Fluorofolin has broad-spectrum antibiotic activity, as it is also capable of inhibiting growth of two other strains of <i>P. aeruginosa</i> , PA01 and ATCC 27853 ^[1] . In the presence of thymine supplementation, Fluorofolin activity is selective for <i>P. aeruginosa</i> ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	In mice, Fluorofolin displays favourable plasma protein binding (71.7% bound, 91.9% recovery). Upon oral administration, fluorofolin achieved a peak concentration of 4.0 µg/mL with a half-life of 12.1 h ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Connor Chain, et al. A folate inhibitor exploits metabolic differences in *Pseudomonas aeruginosa* for narrow-spectrum targeting. *Nat Microbiol.* 2024 May;9(5):1207-1219.

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

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