



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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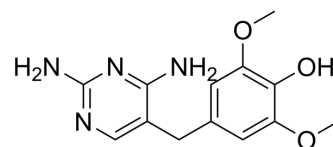
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4'-DTMP

Cat. No.:	HY-W587663
CAS No.:	21253-58-7
Molecular Formula:	C ₁₃ H ₁₆ N ₄ O ₃
Molecular Weight:	276.29
Target:	Dihydrofolate reductase (DHFR)
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (180.97 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.6194 mL	18.0969 mL	36.1939 mL
	5 mM	0.7239 mL	3.6194 mL	7.2388 mL
	10 mM	0.3619 mL	1.8097 mL	3.6194 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

4'-DTMP is a DHFR inhibitor with Ki of 5.1 nM (DHFR^{WT}) and 34.3 nM (DHFR^{L28R}), respectively. 4'-DTMP carries a polar modification that induces additional local interactions with the enzyme. In particular, the hairpin structure on the M20 ring is related to the internal communication of the DHFR. 4'-DTMP has potential inhibition of E.coli^[1].

IC₅₀ & Target

Ki: 5.1 nM (WT), 34.3 nM (L28R)^[1]

REFERENCES

[1]. Cetin E, et al. Kinetic Barrier to Enzyme Inhibition Is Manipulated by Dynamical Local Interactions in E. coli DHFR. J Chem Inf Model. 2023 Aug 14;63(15):4839-4849.

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

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