## Folitixorin

Cat. No.:	HY-14769
CAS No.:	3432-99-3
Molecular Formula:	C <sub>20</sub> H <sub>23</sub> N <sub>7</sub> O <sub>6</sub>
Molecular Weight:	457.44
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-80°C, protect from light, stored under nitrogen

# 0 L H<sub>2</sub>N

**Product** Data Sheet

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In Vitro

$H_{2}O \cdot 5 m\sigma/ml$	(10.93 mM·	ultrasonic and	warming and	heat to $60^{\circ}$ C)
120.3116/112	(10.35 mm),	uttrasonne una	warming and	neut to 00 c)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.1861 mL	10.9304 mL	21.8608 mL
	5 mM	0.4372 mL	2.1861 mL	4.3722 mL
	10 mM	0.2186 mL	1.0930 mL	2.1861 mL

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

Description	Folitixorin (5,10-methylenetetrahydrofolate) is a cofactor and an analog of leucovorin. Folitixorin is a promising agent for modulation of 5-FU cytotoxicity in adjuvant cancer research <sup>[1][2]</sup> .	
In Vitro	5,10-methylenetetrahydrofolate reductase (MTHFR) catalyzes the conversion of 5,10-methylenetetrahydrofolate into 5- methyltetrahy-drofolate, which is the major circulating form of folate <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	A colon adenocarcinoma cell suspension is inoculated intrahepatically in a rodent experimental model. Intravenous 5-FU (30 mg/kg) in combination with Folitixorin (15 mg/kg or 30 mg/kg) is administered after 1, 2, 3, 4 and 7 days. 5-FU in combination with Folitixorin (regardless of folate-dose) eliminats tumor take <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

### CUSTOMER VALIDATION

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### REFERENCES

[1]. Costantini CL, et al. Resection of hepatic metastasis after 5-fluorouracil and cofactor for colon cancer. Hepatogastroenterology. 2009;56(91-92):645-649.

[2]. Carlsson G, et al. 5-fluorouracil (5-FU) and 5,10-methylene tetrahydrofolate (5,10-CH2FH4) as adjuvant therapy in an experimental rodent colon carcinoma model. Anticancer Res. 1997;17(5A):3671-3674.

[3]. Botto LD, et al. 5,10-Methylenetetrahydrofolate reductase gene variants and congenital anomalies: a HuGE review. Am J Epidemiol. 2000;151(9):862-877.

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

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