

## Folitixorin

## Chemical Properties

CAS No. : 3432-99-3

Formula: C<sub>20</sub>H<sub>23</sub>N<sub>7</sub>O<sub>6</sub>

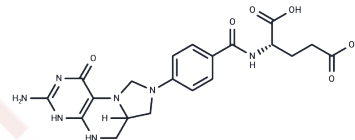
Molecular Weight: 457.44

Storage:

The compound is unstable in solution. Please use soon, Keep away from moisture, Keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Folitixorin (ANX-510) is an active folate derivative and coenzyme associated with thymidine synthesis, with potential antitumour activity.
Targets(IC50)	Endogenous Metabolite, DNA/RNA Synthesis
In vivo	5-FU (30 mg/kg, intravenous injection) and Folitixorin (15 mg/kg or 30 mg/kg, intravenous injection) were administered intrahepatically to rodents with colon adenocarcinoma cell suspensions. The combination of these two drugs abolished tumor uptake, regardless of folic acid dose. [1]

## Solubility Information

Solubility	DMSO: 1 mg/mL (2.19 mM) H <sub>2</sub> O: 4 mg/mL (8.74 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
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	1.093 mL	2.1861 mL
50 mM	0.0437 mL	0.2186 mL	0.4372 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Costantini CL, et al. Resection of hepatic metastasis after 5-fluorouracil and CoFactor for colon cancer. *Hepato-Gastroenterology* (2009), 56(91-92), 645-649.

Schlemmer, et al. Tissue Levels of Reduced Folates in Patients with Colorectal Carcinoma After Infusion of Folinic Acid at Various Dose Levels. *Clinical Cancer Research* (2008), 14(23), 7930-7934.

Etienne-Grimaldi, et al. Methylenetetrahydrofolate reductase (MTHFR) variants and fluorouracil-based treatments in colorectal cancer. *Pharmacogenomics* (2007), 8(11), 1561-1566.

Sakamoto, et al. Folylpolylglutamate synthase and g -glutamyl hydrolase regulate leucovorin-enhanced 5-fluorouracil anticancer activity. *Biochemical and Biophysical Research Communications* (2008), 365(4), 801-807.

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