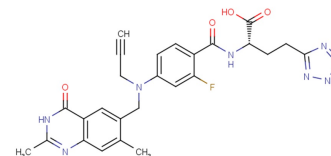


Plevitrexed

Chemical Properties

CAS No.:	153537-73-6
Formula:	C ₂₆ H ₂₅ FN ₈ O ₄
Molecular Weight:	532.53
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Plevitrexed is taken up via the α -folate receptor as well as the reduced folate carrier. Plevitrexed is an orally active and effective thymidylate synthase (TS) inhibitor (K_i : 0.44 nM). Plevitrexed is used for gastric cancer in clinical.
Targets(IC ₅₀)	Others: None
In vitro	ZD9331 suppresses the transport of [3H]-methotrexate into L1210 and W1L2 cells (K_i : ~1 μ M)[3].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.878 mL	9.389 mL	18.778 mL
5 mM	0.376 mL	1.878 mL	3.756 mL
10 mM	0.188 mL	0.939 mL	1.878 mL
50 mM	0.038 mL	0.188 mL	0.376 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Tochowicz A, et al. Development and binding mode assessment of N-[4-[2-propyn-1-yl][(6S)-4,6,7,8-tetrahydro-2-(hydroxymethyl)-4-oxo-3H-cyclopenta[g]quinazolin-6-yl]amino]benzoyl]-L- γ -glutamyl-D-glutamic acid (BGC 945), a novel thymidylate synthase inhibitor that targets tumor cells. *J Med Chem*. 2013 Jul 11;56(13):5446-55.
- A. Thomas, et al. A phase I/II study of plevitrexed with nutritional vitamin supplementation in gastric cancer.
- Marsham PR, et al. Design and synthesis of potent non-polyglutamatable quinazoline antifolate thymidylate synthase inhibitors. *J Med Chem*. 1999 Sep 23;42(19):3809-20.

Inhibitors · Natural Compounds · Compound Libraries

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