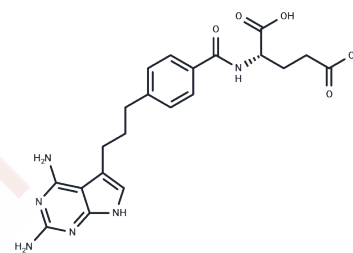


TNP-351

## Chemical Properties

CAS No. : 125991-51-7  
 Formula: C<sub>21</sub>H<sub>24</sub>N<sub>6</sub>O<sub>5</sub>  
 Molecular Weight: 440.45  
 Storage: 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	Tnp 351 is a novel antifolate drug being assessed for chemotherapy of lung cancer.
Targets(IC50)	Others,Antifolate

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2704 mL	11.352 mL	22.7041 mL
5 mM	0.4541 mL	2.2704 mL	4.5408 mL
10 mM	0.227 mL	1.1352 mL	2.2704 mL
50 mM	0.0454 mL	0.227 mL	0.4541 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

Taylor EC, Liu B. A new and efficient synthesis of pyrrolo[2,3-d]pyrimidine anticancer agents: Alimta (LY231514, MTA), homo-Alimta, TNP-351, and some aryl 5-substituted pyrrolo[2,3-d]pyrimidines. J Org Chem. 2003 Dec 26;68(26):9938-47. PubMed PMID: 14682686.

Itoh F, Yoshioka Y, Yukishige K, Yoshida S, Ootsu K, Akimoto H. Non-glutamate type pyrrolo[2,3-d]pyrimidine antifolates. III. Synthesis and biological properties of N(omega)-masked ornithine analogs. Chem Pharm Bull (Tokyo). 2000 Sep;48(9):1270-80. PubMed PMID: 10993224.

Matsuo K, Kiura K, Ueoka H, Tabata M, Shibayama T, Matsumura T, Takigawa N, Hiraki S, Harada M. Growth inhibitory effects of antifolates against an adriamycin-resistant human small cell lung cancer cell line. Acta Med Okayama. 1997 Jun;51(3):121-7. Erratum in: Acta Med Okayama 1997 Aug;51(4):237. PubMed PMID: 9227790.

Taylor EC, Mao Z. A Ring-Transformation/Ring-Annulation Strategy for the Synthesis of the DHFR Inhibitor, TNP-351: A Correction. J Org Chem. 1996 Nov 1;61(22):7973-7974. PubMed PMID: 11667765.

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