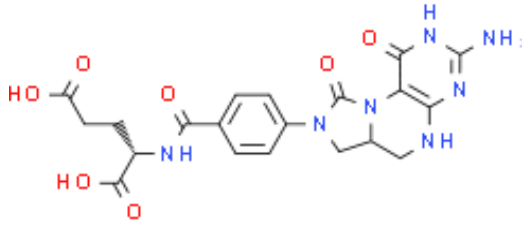


Product Data Sheet

Cas No.:	10538-99-5	Cat. No:	PL07106
Product Name:	LY 345899		
Product synonym:	-		
Chemical name:	LY 345899		
MF:	C20H21N7O7	FW:	471.423443555832
Purity:	≥98%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	O=C1N(C2C=CC(C(N[C@H](C(=O)O)CCC(=O)O)=O)=CC=2)CC2CNC3=C(C(NC(N)=N3)=O)N21		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

LY 345899 是一种叶酸的类似物，也是一种亚甲基四氢叶酸脱氢酶 (MTHFD1; DC301) 和 MTHFD2 抑制剂，其 IC50 值分别为 96 nM 和 663 nM，对 MTHFD1 的 Ki 值为 18 nM。

生物活性	LY 345899 is a Folate analog and is a methylene tetrahydrofolate dehydrogenase (MTHFD1; DC301) and MTHFD2 inhibitor with IC 50 values of 96 nM and 663 nM, respectively and a K i of 18 nM for MTHFD1.
IC50 & Target[1][2]	Ki: 18 nM (MTHFD1); IC50: 96 nM (MTHFD1) and 663 nM (MTHFD2)
体外研究(In Vitro)	LY 345899 could suppress the MTHFD enzyme in the cytoplasm and mitochondria. LY 345899 could disturb the NADPH and redox homeostases and accelerate cell death under oxidative stress, such as hypoxia, or causing in vitro anchorage independence and in vivo impaired tumor growth and metastasis. has not independently confirmed the accuracy of these methods. They are for reference only.
体内研究(In Vivo)	LY345899 (Intraperitoneal injection; 5-10 mg/kg; 5 d/wk; 4 weeks) shows potent antitumor activity and displays therapeutic activity against CRC in vivo. has not independently confirmed the accuracy of these methods. They are for reference only. Animal Model:

包装储存	Powder -20°C 3 years; In solvent -80°C 6 months
溶解度数据	In Vitro: DMSO : 125 mg/mL (265.16 mM; Need ultrasonic)配制储备液