Product Data Sheet

Product Name: Fotemustine (S10036)
Cat. No.: GC32827

Chemical Properties

Cas. No.	92118-27-9		
SMILES	CC(P(OCC)(OCC)=O)NC(N(CCCl)N=O)=O		
Formula	$C_9H_{19}ClN_3O_5P$	M.Wt	315.69
Solubility	DMSO : ≥ 3.2 mg/mL (10.14 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Fotemustine (S10036)		

Background

Fotemustine is a DNA-alkylating agent, with antitumor activity.

Fotemustine is a DNA-alkylating agent. Fotemustine (800 μM) decreases GSH and intracellular GSSG levels but increases the extracellular GSSG-levels rapidly in isolated rat hepatocytes[1]. Fotemustine shows inhibitory effect on several tumor cell lines, with IC50s ranging form 0.05 to 0.18 mM[2].

[1]. Brakenhoff JP, et al. Molecular mechanisms of toxic effects of fotemustine in rat hepatocytes and subcellular rat liver fractions. Carcinogenesis. 1996 Apr;17(4):715-24.
[2]. Merlin JL, et al. Enhancement of fotemustine (Muphoran) cytotoxicity by amifostine in malignant melanoma cell lines. Anticancer Drugs. 2002 Feb;13(2):141-7.

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