

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

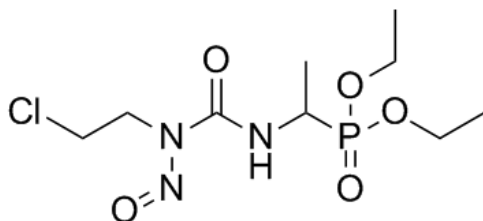
Formula $C_9H_{19}ClN_3O_5P$ M.Wt 315.69

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°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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



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 from 0.05 to 0.18 mM[2].

Caution: Product has not been fully validated for medical applications. For research use only.

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[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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