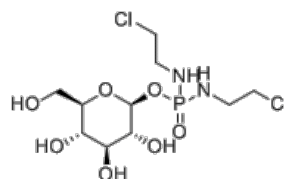


Product Name : Glufosfamide
Synonyms : D-19575; D19575
Cat No. : M11306
CAS Number : 132682-98-5
Molecular Formula : C₁₀H₂₁Cl₂N₂O₇P
Formula Weight : 383.16
Chemical Name : N,N'-Bis(2-chloroethyl)phosphorodiamidic acid beta-D-glucopyranosyl ester



Description : A conjugate of glucose and active alkylating moiety of ifosfamide with potentially enhanced selectivity for tumors that overexpress transmembrane glucose transporters; has the better cell permeability than ifosfamide; Glufosfamide utilizes the normal cell glucose transport mechanism (SAAT1) for transport into the cell, enhances the activity of gemcitabine in vitro and in vivo. Pancreatic Cancer Phase 3 Clinical

Pathway : Cell Cycle/DNA Damage

Target : DNA Alkylator

Receptor : DNA Alkylator

Solubility : —

SMILES : O=P(NCCCl)(NCCCl)O[C@H]1[C@@H]([C@H]([C@@H]([C@@H]([C@H]1CO)O)O)O)O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Veyhl M, et al. Proc Natl Acad Sci U S A. 1998 Mar 17;95(6):2914-9. | 2. Styczynski J, et al. Anticancer Res. 2002 Jan-Feb;22(1A):247-50. | 3. Seker H, et al. Br J Cancer. 2000 Feb;82(3):629-34. | 4. Ammons WS, et al. Neoplasia. 2007 Aug;9(8):625-33.