

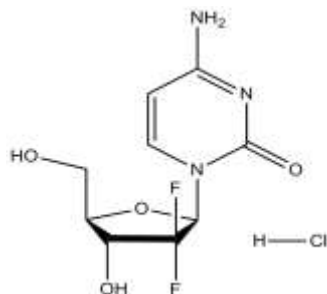
Gemcitabine Hydrochloride

ALTERNATE NAME: 2',2'-difluoro-2'-deoxycytidine; Gemcitabine; Gemcitera; Gempzar; Gemzar; LY-188011

CATALOG #: 1759-25, 100

AMOUNT: 25 mg, 100 mg

STRUCTURE:



MOLECULAR FORMULA: C₉H₁₁F₂N₃O₄•HCl

MOLECULAR WEIGHT: 299.66

CAS NUMBER: 122111-03-9

APPEARANCE: White solid

SOLUBILITY: DMSO (10 mg/ml) or H₂O (25 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20 °C

DESCRIPTION: A nucleoside analog of deoxycytidine used in chemotherapy to treat various types of cancer. Gemcitabine is converted intracellularly to the active metabolites difluorodeoxycytidine di- and triphosphate (dFdCDP, dFdCTP). dFdCDP inhibits ribonucleotide reductase, thereby decreasing the deoxynucleotide pool available for DNA synthesis; dFdCTP is incorporated into DNA, resulting in DNA strand termination and apoptosis.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

- Bexarotene (Cat. No. 1575-5, 50)
- Capecitabine (Cat. No. 1741-100,1000)
- Carboplatin (Cat. No. 1553-100)
- Cisplatin (Cat. No. 1550-100,1000)
- Daunorubicin.HCl (1524-10,50,500)
- Doxorubicin HCl (Cat. No. 1527-5)
- Nedaplatin (Cat. No. 1576-5)
- Oxaliplatin (Cat. No. 1577-25)
- Paclitaxel (Cat. No. 1567-25)
- Tamoxifen Citrate (Cat. No. 1551-1000)

FOR RESEARCH USE ONLY! Not to be used on humans.