

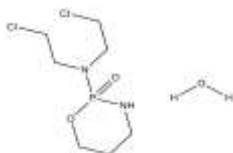
PRODUCT: Cyclophosphamide monohydrate

ALTERNATE NAME: 2-[Bis(2-chloroethyl)amino]tetrahydro-2H-1,3,2-oxazaphosphorine 2-oxide, Cytosan

CATALOG #: 9657-1G, 5G

AMOUNT: 1 g, 5 g

STRUCTURE:



MOLECULAR FORMULA: $C_7H_{15}Cl_2N_2O_2P \cdot H_2O$

MOLECULAR WEIGHT: 279.10

CAS#: 6055-19-2

APPEARANCE: White to off-white solid

SOLUBILITY: H_2O (>100 mg/ml)

PURITY: $\geq 98\%$

STORAGE: Store at $-20^\circ C$. Protect from air and moisture

DESCRIPTION: Cyclophosphamide is a cytotoxic agent commonly used in cancer chemotherapy. It cross-links DNA, causes strand breakage, and induces mutations. Its clinical activity is associated with a decrease in aldehyde dehydrogenase 1 (ALDH1) activity. Also displays immunosuppressant properties.

REFERENCE: Ahren, B. (2008). *Expert Opin. Emerg. Drugs* **13**, 593-607.

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

RELATED PRODUCTS:

Colchicine (Cat. No. 1519-1000)
 Combretastatin A (Cat. No. 2239-10, 50)
 Docetaxel (Cat. No. 2232-10, 50)
 Epothilone B (Cat. No. 2012-1,5)
 Etoposide (Cat. No. 1043-25Mg, 25MG)
 Etoposide phosphate (Cat. No. 2896-10,50)
 Nocodazole (Cat. No. 2185-10, 50)
 Paclitaxel (Cat. No. 1567-25)
 Podophyllotoxin (Cat. No. 2767-50)
 Pseudolaric acid B (Cat. No. 2512-1, 5)
 Tamoxifen Citrate (Cat. No. 1551-1000)
 Vinblastin sulfate (Cat. No. 1959-5, 25)
 Vinorelbine tartrate (Cat. No. 1957-5, 25)
 A771726 (Cat. No. 1973-5, 25)
 Ascomycin (Cat. No. 1570-2)
 Cyclosporin A (Cat. No. 1522-100, 1G)
 (R,S)-Lenalidomide (Cat. No. 1862-25, 100)
 FK506 (Cat. No. 1563-1,10)
 Leflunomide (Cat. No. 1972-10, 50)
 Mycophenolic acid (Cat. No. 1882-50, 250)
 Rapamycin (Cat. No. 1568-5, 50)
 Rocaglamide (Cat. No. 1863-100)

USAGE:

FOR RESEARCH USE ONLY! Not to be used in humans!