



LKT Laboratories, Inc.

Cyclophosphamide Monohydrate

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Product Information

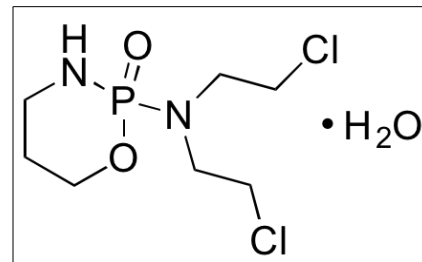
Product ID C9609
CAS No. 6055-19-2
Chemical Name N,N-Bis(2-chloroethyl)tetrahydro-2H-1,3,2-ox- azaphosphorin-2-amine
2 oxide monohydrate

Synonym Cycloblastin, Cyclostin, Cytoxan, Endoxan

Formula $C_7H_{15}Cl_2N_2O_2P \cdot H_2O$
Formula Wt. 279.10
Melting Point 41-45°C
Purity ≥98%
Solubility Soluble in water. Slightly
soluble in ethanol.

Store Temp 4°C
Ship Temp Ambient

Description Cyclophosphamide is a nitrogen mustard that acts as an alkylator, adding alkyl groups to the N7 nitrogen of guanine bases; this inhibits DNA repair and replication. Cyclophosphamide exhibits anticancer chemotherapeutic and immunomodulatory activities. This compound is one component in the CHOP chemotherapy regimen. Cyclophosphamide is clinically used to treat various cancers, graft-versus-host disease (GvHD), and autoimmune diseases such as multiple sclerosis, rheumatoid arthritis, and systemic lupus erythematosus (SLE).



Bulk quantities available upon request

Product ID	Size
C9609	1 g
C9609	5 g

References Sistigu A, Viaud S, Chaput N, et al. Immunomodulatory effects of cyclophosphamide and implementations for vaccine design. *Semin Immunopathol.* 2011 Jul;33(4):369-83. PMID: 21611872.

Makhani N, Gorman MP, Branson HM, et al. Cyclophosphamide therapy in pediatric multiple sclerosis. *Neurology.* 2009 Jun 16;72(24):2076-82. PMID: 19439723.

Hall AG, Tilby MJ. Mechanisms of action of, and modes of resistance to, alkylating agents used in the treatment of haematological malignancies. *Blood Rev.* 1992 Sep;6(3):163-73. PMID: 1422285.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.