

Product Application Bulletin

DECP: VERSATILE REAGENT FOR PHOSPHORYLATION AT CARBON, OXYGEN AND NITROGEN CENTERS.

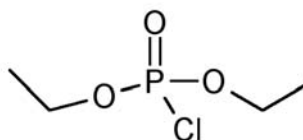
Chemical Name:

Diethyl Chlorophosphate (DECP)

CAS Registry Number:

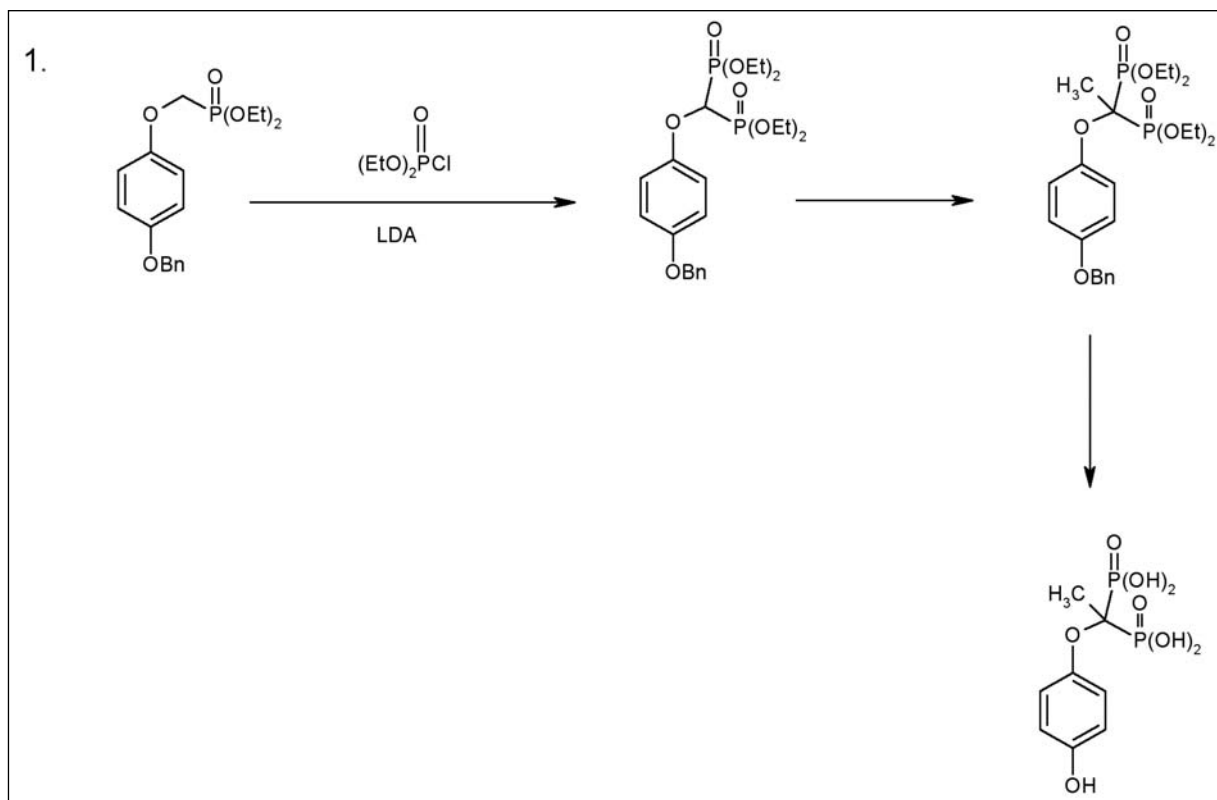
814-49-3

Structure:

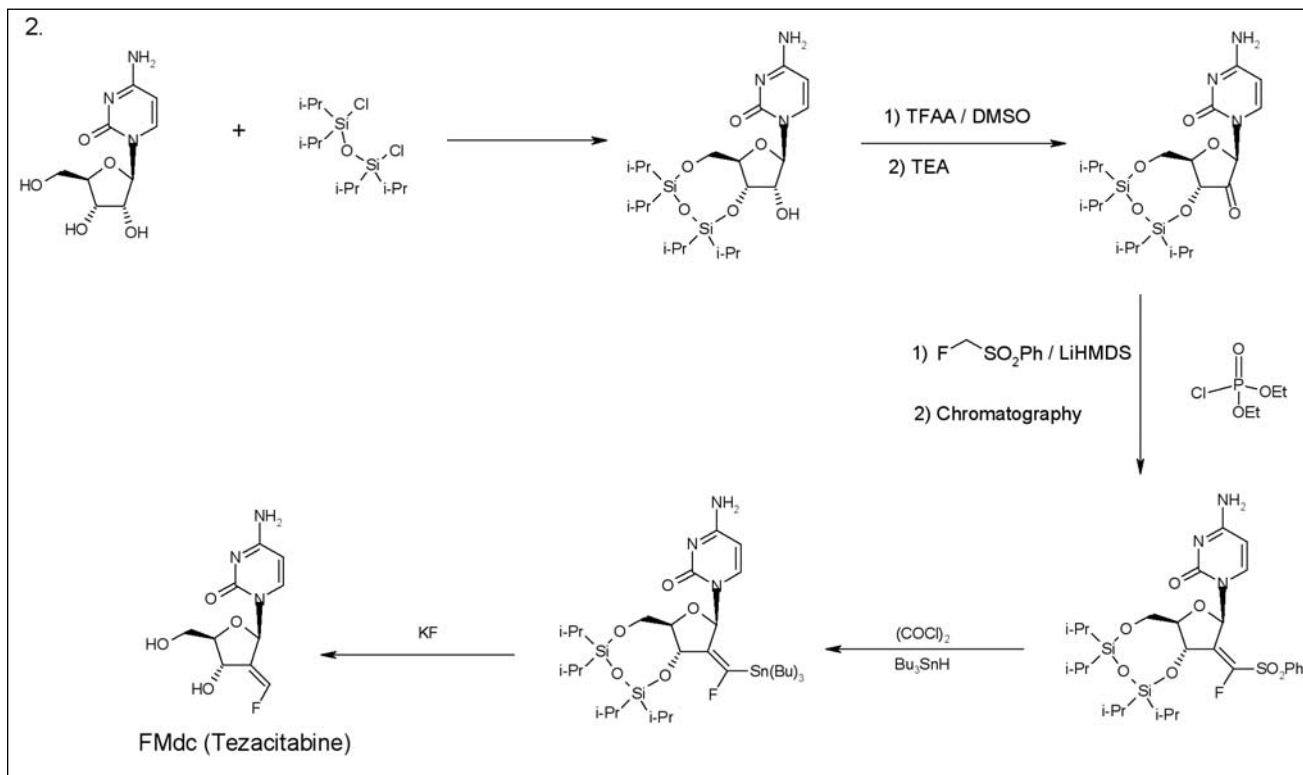


Examples / Use:

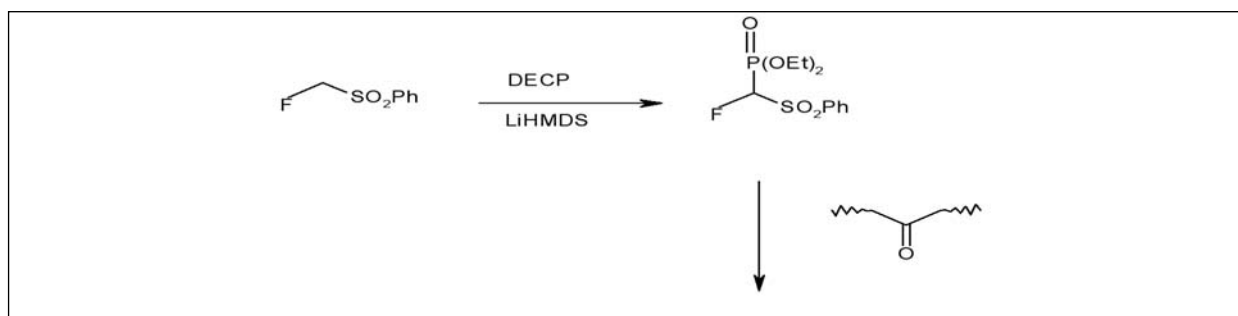
A. Phosphorylation at carbon.



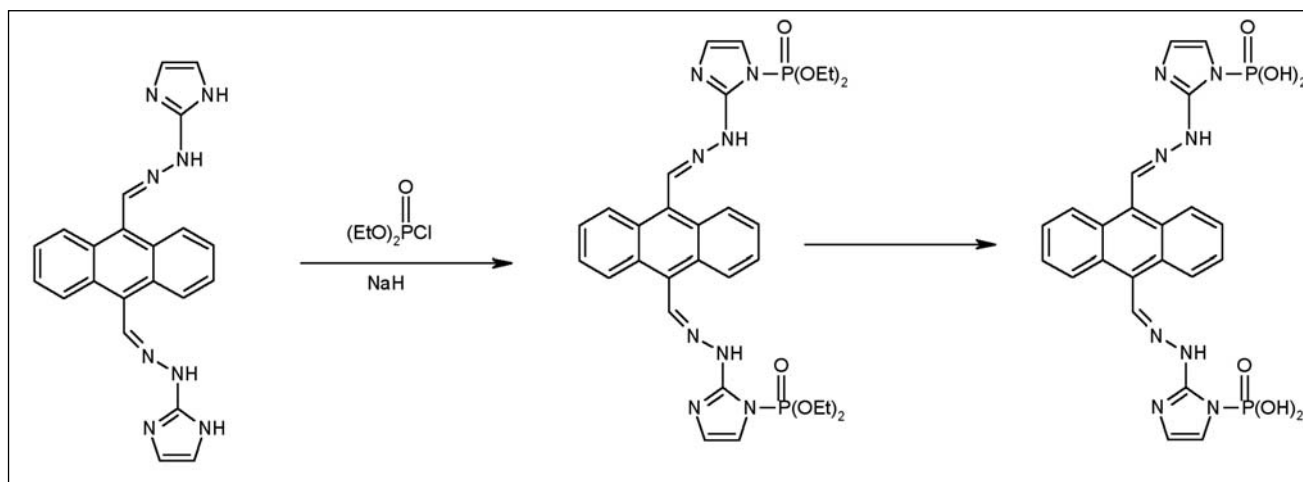
A. Phosphorylation at carbon to generate HEW intermediate useful in synthesis of Matrix's Tezacitabine for cancer treatment.



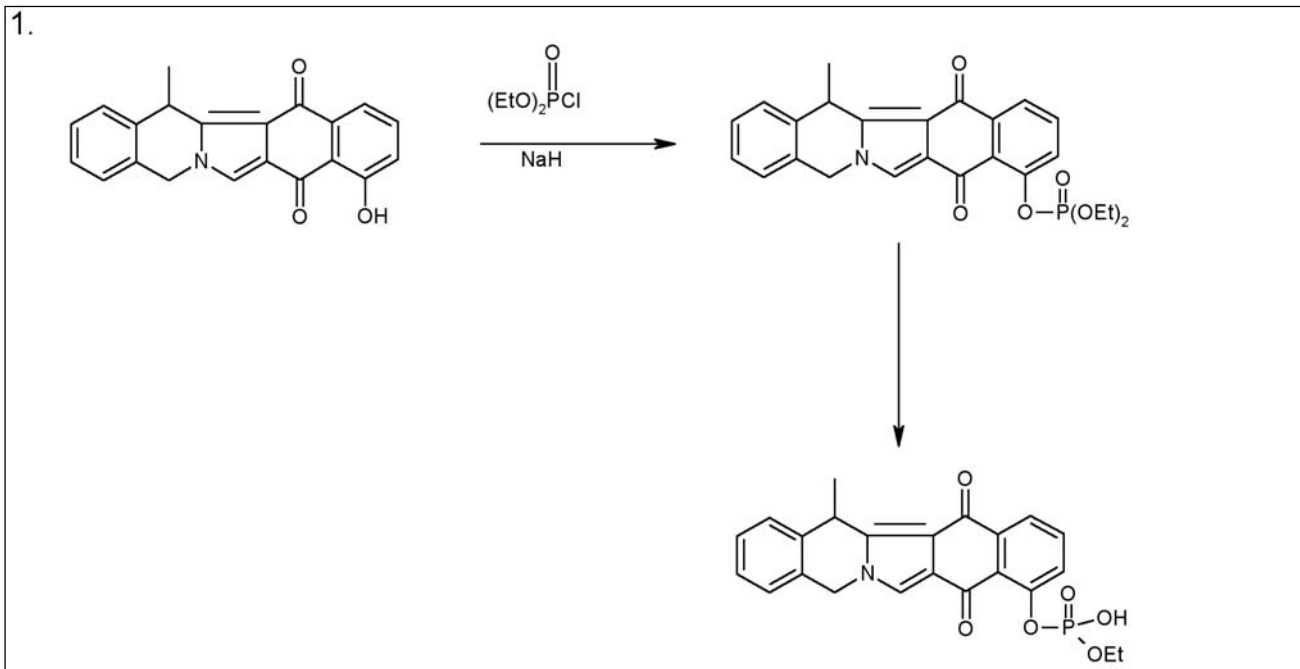
Chemistry that generates HEW intermediate



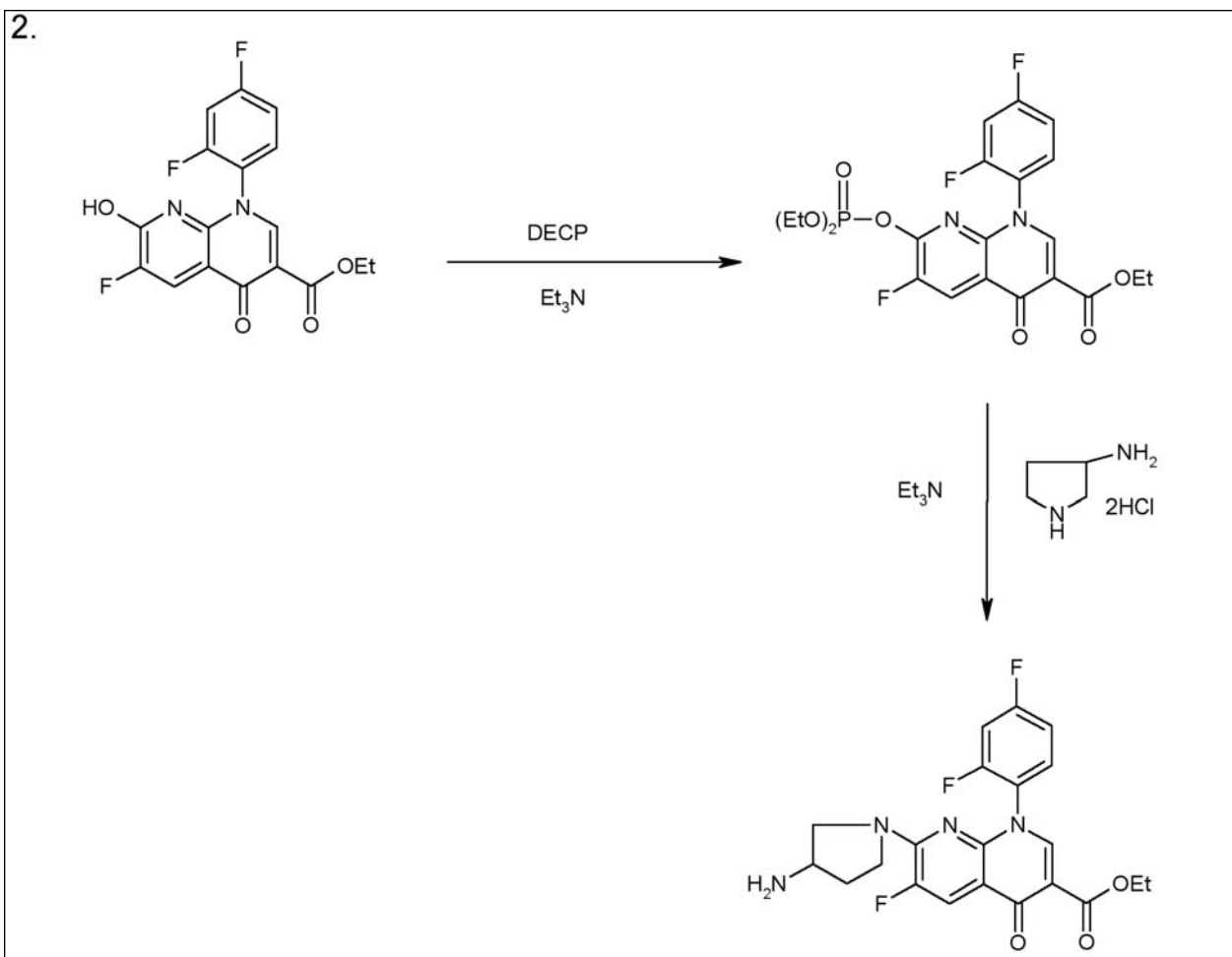
B. Phosphorylation at nitrogen.



C. Phosphorylation at oxygen



C. Phosphorylation at oxygen



Summary:**THERAPEUTIC AREA:**

Use not associated with any specific therapeutic area.

FUNCTIONALITY:

Transformational Reagent (Phosphorylation)

References:

- A1. Bioorg. Med. Chem. Lett. 3(2), 1993, 141- 146
- A2. Drugs of the Future 2001, 26(5), 502-504
- A3. Syn. Comm., 25 (22), 1995, 3583- 3587
- B. J. Med. Chem., 36, 1993, 2098 – 2101
- C1. US 4,851,399 (1989)
- C2. US 4,704,459 (1987)

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