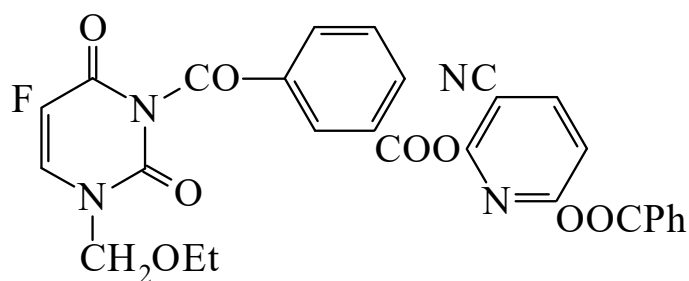




>>Entry Name: Emitefur, INN, USAN

Synonym(s): 6-(Benzyloxy)-3-cyano-2-pyridinyl 3-[[3-(ethoxymethyl)-5-fluoro-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]carbonyl]benzoate, 9CI. Etomefur. BOF A2



CAS Registry Number: 110690-43-2

Type of Compound Code(s): XA1950

Molecular Formula: C₂₈H₁₉FN₄O₈

Molecular Weight: 558.478

Accurate Mass: 558.118694

Percentage Composition: C 60.22%; H 3.43%; F 3.40%; N 10.03%; O 22.92%

Use/Importance: Inhibits DNA synth. and RNA function. Antineoplastic agent used in the treatment of stomach, colorectal, breast, lung and pancreatic cancers

Melting Point: Mp 162-164°

Hazard & Toxicity: LD₅₀ (rat, orl) 1850 mg/kg. Exp. reprod. and teratogenic effects

References:

- Ger. Pat.*, 1988, *Otsuka*, 3 709 699; *CA*, **108**, 186765e, (*synth, pharmacol*)
Fujii, S. *et al.*, *Jpn. J. Cancer Res.*, 1989, **80**, 173; 1991, **82**, 476, (*pharmacol*)
Hirohashi, M. *et al.*, *Chem. Pharm. Bull.*, 1993, **41**, 1498, (*synth, pmr, ir*)
Shibahara, T. *et al.*, *J. Toxicol. Sci., Suppl.* 3, 1993, **18**, 11, (*tox*)
Nakai, Y. *et al.*, *Acta Oncol.*, 1994, **33**, 523, (*clin trial*)