



Product Information

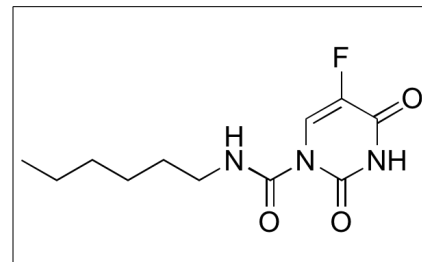
Product ID C0174
CAS No. 61422-45-5
Chemical Name 5-Fluoro-N-hexyl-3,4-dihydro-2,4-1(2H)-pyrimidinecarboxamide

Synonym HCFU, Mifurof, Yamaful

Formula C₁₁H₁₆FN₃O₃
Formula Wt. 257.26
Melting Point 110-111 °C
Purity ≥97%
Solubility

Store Temp 4 °C
Ship Temp Ambient

Description Carmofur is a pyrimidine analog and derivative of fluorouracil; it exhibits anticancer chemotherapeutic and anti-metastatic activities. Carmofur inhibits thymidylate synthase and acid ceramidase, preventing DNA replication. This compound is clinically used to treat curatively resected colon cancer and breast cancer.



Bulk quantities available upon request

Product ID	Size
C0174	250 mg
C0174	1 g
C0174	5 g

References Pizzirani D, Pagliuca C, Realini N, et al. Discovery of a new class of highly potent inhibitors of acid ceramidase: synthesis and structure-activity relationship (SAR). *J Med Chem.* 2013 May 9;56(9):3518-30. PMID: 23614460.

Sakamoto J, Hamada C, Rahman M, et al. An individual patient data meta-analysis of adjuvant therapy with carmofur in patients with curatively resected colon cancer. *Jpn J Clin Oncol.* 2005 Sep;35(9):536-44. PMID: 16155120.

Morimoto K, Koh M. Postoperative adjuvant use of carmofur for early breast cancer. *Osaka City Med J.* 2003 Dec;49(2):77-83. PMID: 15179836.

Nakanishi H, Abe A, Inada K, et al. Induction of apoptosis in metastatic foci from human gastric cancer xenografts in nude mice and reduction of circulating tumor cells in blood by 5-FU and 1-hexylcarbamoyl-5-fluorouracil. *J Cancer Res Clin Oncol.* 1999 Dec;125(12):660-8. PMID: 10592098.

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