LKT Laboratories, Inc.

Carmofur

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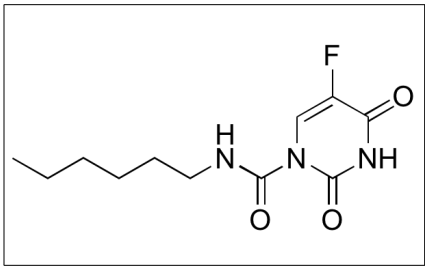
Product Information

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



Formula $C_{11}H_{16}FN_3O_3$
Formula Wt. 257.26
Melting Point 110-111°C
Purity ≥97%
Solubility

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
C0174	250 mg	$57.90
C0174	1 g	$103.40
C0174	5 g	$341.60

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.

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.