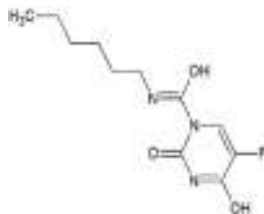


Carmofur

ALTERNATE NAME: HCFU
5-fluoro-N-hexyl-3,4-dihydro-2H,4-dioxo-1-pyrimidinecarboxamide

CATALOG #: B2448-50 50 mg
B2448-250 250 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₁H₁₆FN₃O₃

MOLECULAR WEIGHT: 257.27

CAS NUMBER: 61422-45-5

APPEARANCE: White solid

PURITY: ≥98%

SOLUBILITY: ~20 mg/ml DMSO

DESCRIPTION: Carmofur is derivative of 5-fluorouracil (Cat. No. B1519) that acts as an inhibitor of acid ceramidase (IC₅₀ = 79 nM for the rat enzyme). It reduces acid ceramidase activity in a dose- and time-dependent manner. Carmofur induces apoptosis in SW403 cells without inhibiting DNA synthesis (IC₅₀ = 1,212 nM for human thymidylate synthetase).

REFERENCES: Realini, N., et al. (2013). Sci.Rep. 3(1035), 1-7.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Sphingomyelin Quantification Colorimetric Assay Kit (K600)
NVP-231 (B2225)
C2 Ceramide (2390)
Acid Sphingomyelinase Assay Kit II (Colorimetric) (K192)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*