

# Carmofur

Catalog No: tcsc2064



## Available Sizes

**Size:** 100mg

**Size:** 500mg



## Specifications

**CAS No:**

61422-45-5

**Formula:**

$C_{11}H_{16}FN_3O_3$

**Pathway:**

Cell Cycle/DNA Damage

**Target:**

Nucleoside Antimetabolite/Analog

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

HCFU

**Observed Molecular Weight:**

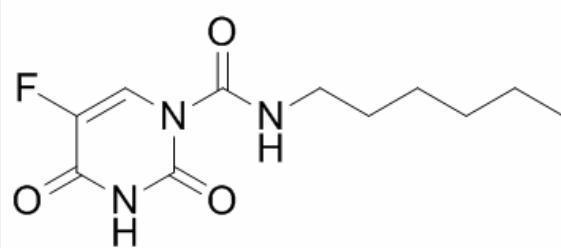
257.26

## Product Description

Carmofur is a derivative of fluorouracil, an antimetabolite used as an antineoplastic agent.

Target: Nucleoside antimetabolite/analog

Carmofur, which is used in the clinic to treat colorectal cancers, is a potent AC inhibitor and that this property is essential to its anti-proliferative effects. Carmofur inhibited AC activity with a median effective concentration (IC<sub>50</sub>) of  $29 \pm 5$  nM (mean  $\pm$  standard error of the mean, s.e.m.; n = 4), whereas 5-FU had no such effect (IC<sub>50</sub>>1 mM). systemic administration of carmofur (10 or 30 mg-kg<sup>-1</sup>, intraperitoneal, i.p.) to mice produced a dose-dependent inhibition of AC activity in various tissues, including lungs and brain cortex.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!