CD BioGlyco
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

Antimetabolite inhibitor, Carmofur, Purity ≥98%

Cat. No.: X24-09-YM479

Size: 50 mg; 100 mg; 250 mg; 500 mg

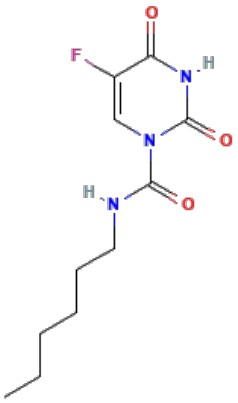
MDL: MFCD00866284

CAS Number: 61422-45-5

Compound CID: 2577

Synonym: 61422-45-5; HCFU; 1-Hexylcarbamoyl-5-fluorouracil; 5-Fluoro-*N*-hexyl-2,4-dioxopyrimidine-1-carboxamide; Antimetabolite inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Carmofur, soluble in DMSO and ethanol and insoluble in water, is an effective metabolism inhibitor, that has the ability to prevent the pathway of cell metabolism by inhibiting antimetabolite. The molecular weight of the compound is 257.26, and its molecular formula is $C_{11}H_{16}FN_3O_3$.
Molecular Weight	257.26
Molecular Formula	$C_{11}H_{16}FN_3O_3$
IUPAC Name	5-Fluoro-*N*-hexyl-2,4-dioxopyrimidine-1-carboxamide
InChI	InChI=1S/C11H16FN3O3/c1-2-3-4-5-6-13-10(17)15-7-8(12)9(16)14-11(15)18/h7H,2-6H2,1H3,(H,13,17)(H,14,16,18)
InChI Key	AOCCBINRVIKJHY-UHFFFAOYSA-N
Canonical SMILES	CCCCCCNC(=O)N1C=C(C(=O)NC1=O)F
Isomeric SMILES	C1[C@H](CNC2=C1C(=O)NC(=N2)N)CCC3=CC=C(C=C3)C(=O)N[C@@H](CCC(=O)[O-])C(=O)[O-].[Na+].[Na+]
Form	Lyophilized powder
Purity	≥98%
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	*In vitro*: DMSO: 48 mg/mL (186.58 mM); Water: insoluble; Ethanol: 9 mg/mL (34.98 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Carmofur plays a key role in disrupting DNA synthesis, leading to cancer cell death.

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Storage	Store at -20ºC, and keep desiccated.