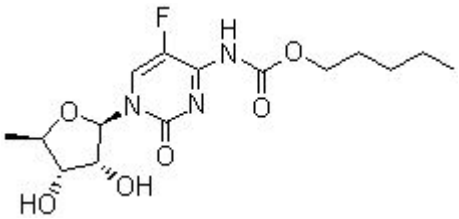
Product Introduction

Capecitabine

Capecitabine is a tumor-selective fluoropyrimidine carbamate which achieves higher intratumoral 5-FU level with lower toxicity than 5-FU.

Technical Data:

Molecular Weight (MW):	359.35	
Formula:	$C_{15}H_{22}FN_3O_6$	
Solubility (25°C) * <1 mg/ml means slightly soluble or insoluble:	DMSO 72 mg/mL	
	Water 6 mg/mL	
	Ethanol 72 mg/mL	
Purity:	>98%	
Storage:	3 years -20℃Powder	
	6 months-80℃in DMSO	
CAS No.:	154361-50-9	

Biological Activity

Both LS174T WT and LS174T-c2 cells show significantly greater sensitivity to Capecitabine when cultivated in the same plates as HepG2 hepatoma with IC50 values of 890 and 630 μM in LS174T WT alone and cultivated with HepG2, respectively. In addition, for the LS174T-C2 subline, the IC50 falls from 330 ± 4 down to 89 ± 6 μm when cultivated in the same plates as hepatoma cells. Furthermore, Capecitabine induces apoptosis in a Fas-dependent manner, and shows a 7-fold higher cytotoxicity and

markedly stronger apoptotic potential in thymidine phosphorylase (TP)-transfected LS174T-c2 cells. [1] In the human cancer xenograft models studied, Capecitabine is more effective in a wider dose range and has a broader spectrum of antitumor activity than 5-FU, UFT or its intermediate metabolite 5'-DFUR, which can be correlated with tumor dThdPase levels. [2] Capecitabine inhibits tumor growth and metastatic recurrence after resection of human hepatocellular carcinoma (HCC) in highly metastatic nude mice model which is attributed to the high expression of platelet-derived endothelial cell growth factor in tumors. [3] A tumor-selective fluoropyrimidine carbamate.

References

[1] Ciccolini J, et al. Mol Cancer Ther. 2002, 1(11), 923-927.
[2] Ishikawa T, et al. Biochem Pharmacol. 1998, 55(7), 1091-1097.
[3] Zhou J, et al. Clin Cancer Res. 2003, 9(16), 6030-6037.

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