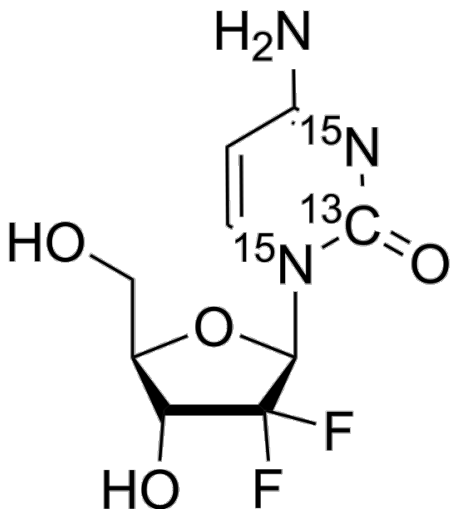
Product Data Sheet

Product Name: Gemcitabine- 13 C, 15 N 2
Cat. No.: GC79990

Chemical Properties

Cas. No.	1233921-74-8		
Formula	$C_{813}CH_{11}F_2N_{15}N_2O_4$	M.Wt	266.18
Solubility		Storage	Store at 4°C, protect from light
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



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Background

antimetabolite and an antineoplastic agent. Gemcitabine inhibits DNA synthesis and repair, resulting in autophagyand apoptosis [1] [2].

In Vitro, Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs.

References:
[1]. Wang H, et al. Enhanced efficacy of Gemcitabine by indole-3-carbinol in pancreatic cell lines: the role of human equilibrativenucleoside transporter 1. Anticancer Res. 2011 Oct;31(10):3171-80.
[2]. Gagnadoux F, et al. Safety of pulmonary administration of gemcitabine in rats. J Aerosol Med. 2005 Summer;18(2):198-206.

Caution: Product has not been fully validated for medical applications. For research use only.
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