



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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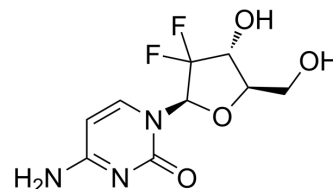
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Gemcitabine (Standard)

Cat. No.:	HY-17026R
CAS No.:	95058-81-4
Molecular Formula:	C ₉ H ₁₁ F ₂ N ₃ O ₄
Molecular Weight:	263.2
Target:	Autophagy; Apoptosis; DNA/RNA Synthesis; Nucleoside Antimetabolite/Analog
Pathway:	Autophagy; Apoptosis; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Gemcitabine (Standard) is the analytical standard of Gemcitabine. This product is intended for research and analytical applications. Gemcitabine (LY 188011) is a pyrimidine nucleoside analog antimetabolite and an antineoplastic agent. Gemcitabine inhibits DNA synthesis and repair, resulting in autophagy and apoptosis ^{[1][2]} .
IC₅₀ & Target	DNA synthesis ^[1]

REFERENCES

- [1]. Wang H, et al. Enhanced efficacy of Gemcitabine by indole-3-carbinol in pancreatic cell lines: the role of human equilibrative nucleoside transporter 1. *Anticancer Res.* 2011 Oct;31(10):3171-80.
- [2]. Yip-Schneider MT, et al. Dimethylaminoparthenolide and Gemcitabine: a survival study using a genetically engineered mouse model of pancreatic cancer. *BMC Cancer.* 2013 Apr 17;13:194.
- [3]. Gagnadoux F, et al. Safety of pulmonary administration of gemcitabine in rats. *J Aerosol Med.* 2005 Summer;18(2):198-206
- [4]. Yusheng Cai, et al. Elimination of senescent cells by β -galactosidase-targeted prodrug attenuates inflammation and restores physical function in aged mice. *Cell Res.* 2020 Jul;30(7):574-589.

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

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