DATA SHEET

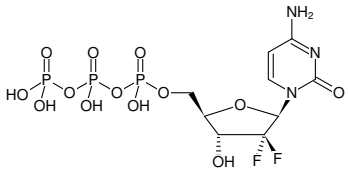
Jena Bioscience

# Gemcitabine-5'-triphosphate

Sodium Salt

2',2'-Difluorocytidine-5'-triphosphate, Sodium salt

| Cat. No. | Amount |
|---|---|
| NU-1607S | 50 µl (10 mM) |
| NU-1607L | 5 x 50 µl (10 mM) |



Structural formula of Gemcitabine-5'-triphosphate

**For general laboratory use.**

**Shipping:** shipped on gel packs

**Storage Conditions:** store at -20 °C

Short term exposure (up to 1 week cumulative) to ambient temperature possible.

**Shelf Life:** 12 months after date of delivery

**Molecular Formula:** $C_9H_{14}N_3O_{13}P_3F_2$ (free acid)

**Molecular Weight:** 503.14 g/mol (free acid)

**Exact Mass:** 502.97 g/mol (free acid)

**Purity:** ≥ 95 % (HPLC)

**Form:** solution in water

**Color:** colorless to slightly yellow

**Concentration:** 10 mM - 11 mM

**pH:** 7.5 ±0.5

**Spectroscopic Properties:** $\lambda_{max}$ 271 nm, ε 9.1 L $mmol^{-1}$ $cm^{-1}$ (Tris-HCl pH 7.5)

**Applications:**

Influence on epigenetic markers[1]

Treatment of hepatocellular carcinoma[2]

Treatment of bladder carcinoma[3]

Treatment of lung cancer[4]

Treatment of breast cancer[5]

Treatment of ovarien cancer[6]

**Selected References:**


[1] Dhayat *et al.* (2011) Epigenetic markers for chemosensitivity and chemoresistance in pancreatic cancer- A review. *International J. of Cancer* **129**:1031.

[2] Chua *et al.* (2011) Targeted therapy in hepatocellular carcinoma. *International J. Hepathology* **348297**:11.

[3] Shelly *et al.* (2011) Gemcitabine chemotherapy for treatment of metastatic bladder carcinoma. *BJU International* **108**:168.

[4] Hayashi *et al.* (2011) Gemcitabine:efficacy in the treatment of advanced stage nonsquamous non-small cell lung cancer. *Clinical Medicine Insights: Oncology* **5**:177.

[5] Moen *et al.* (2005) Gemcitabine: in combination with paclitaxel in the first line traetment of metastatic breast cancer. *American J. of Cancer* **4**:327.

[6] Bookmann (2005) Gemcitabine monotherapy in recurrent ovarian cancer: from the bench to the clinic. *International J. of Gynecological Cancer* **15 Suppl.1**:12.