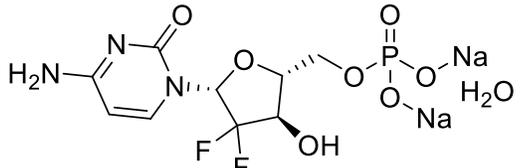


Product data sheet



MedKoo Cat#: 406576 Name: Gemcitabine monophosphate disodium salt CAS#: 1638288-31-9 (disodium) Chemical Formula: C ₉ H ₁₂ F ₂ N ₃ Na ₂ O ₈ P Molecular Weight: 405.15811	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:

Gemcitabine monophosphate disodium salt, also called GemMP, is a monophosphate derivative of Gemcitabine. Gemcitabine (Gem) is a deoxycytidine analog that is effective against pancreatic cancer and other malignancies following conversion to the 5'-O-mono-, di- and tri-phosphate forms. GemMP decreased tumor cell growth at concentrations ranging from 1 to 50 nM. GemMP is a potent cytotoxic agent that serves to induce apoptosis in association with increased Fas expression in cultured thyroid cancer cell lines. (Anticancer Res. 2000 Sep-Oct;20(5A):2915-22).

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under "QC And Documents" section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	10.0	24.68

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.47 mL	12.34 mL	24.68 mL
5 mM	0.49 mL	2.47 mL	4.94 mL
10 mM	0.25 mL	1.23 mL	2.47 mL
50 mM	0.05 mL	0.25 mL	0.49 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of "Calculator"

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

TBD

In vivo study

TBD

7. Bioactivity

Biological target:

Gemcitabine monophosphate is a potent cytotoxic agent that serves to induce apoptosis in association with increased Fas expression in cultured thyroid cancer cell lines.

In vitro activity

TBD

In vivo activity

TBD

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Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.