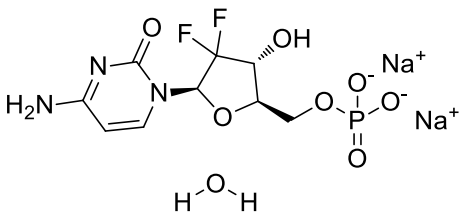




## Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#
406576	GemPhosDiNa (Gemcitabine monophosphate disodium hydrate)	BBC200818

Chemical name	
sodium ((2R,3R,5R)-5-(4-amino-2-oxypyrimidin-1(2H)-yl)-4,4-difluoro-3-hydroxytetrahydrofuran-2-yl)methyl phosphate hydrate	
Synonyms	
Gemcitabine monophosphate disodium salt monohydrate; Gemcitabine monophosphate disodium; GemMP.	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 406576 Name: GemPhosDiNa CAS#: 1638288-31-9 Lot#: BBC200818 Chemical Formula: C <sub>9</sub> H <sub>12</sub> F <sub>2</sub> N <sub>3</sub> Na <sub>2</sub> O <sub>8</sub> P Molecular Weight: 405.16 Gemcitabine monophosphoric acid Chemical Formula: C <sub>9</sub> H <sub>12</sub> F <sub>2</sub> N <sub>3</sub> O <sub>7</sub> P Exact Mass: 343.03809, Molecular Weight: 343.18

Analysis item	Specifications/Results
Appearance	White solid powder
Structure	<sup>1</sup> H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature.
Purity (HPLC)	>90%
Solubility	Soluble in water.
Conclusion	This product conforms with MedKoo's quality standards
Shipping condition	Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in Customs.
Storage condition	Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition
Self life	At least 5 years if properly stored.

**CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE**