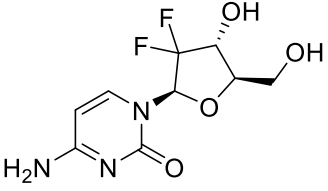




Certificate of Analysis

| | | |
|---------------------|-----------------------|-------------|
| MedKoo Cat#: | Product Name: | Lot# |
| 123210 | Gemcitabine free base | TZC50724 |

| | |
|--|---|
| Chemical name | |
| 4-amino-1-((2R,4R,5R)-3,3-difluoro-4-hydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)pyrimidin-2(1H)-one | |
| Synonyms | |
| LY-188011; LY 188011; LY188011; Abbreviations: dFdC; dFdCyd; gemcitabine; Gemzar. | |
| Chemical structure | CAS# and Theoretical analysis |
|  | MedKoo Cat#: 123210 Name: Gemcitabine free base CAS#: 95058-81-4 Lot#: TZC50724 Chemical Formula: C ₉ H ₁₁ F ₂ N ₃ O ₄ Exact Mass: 263.07176 Molecular Weight: 263.2 |

| Analysis item | Specifications / Results |
|---------------------------|--|
| Appearance | White to off-white solid powder |
| Structure | ¹ 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) | >99.0% |
| Solubility | Soluble in DMSO. |
| 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