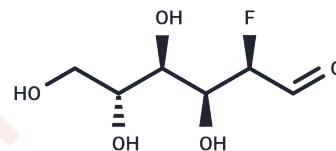


## 2-deoxy-2-fluoro-D-Glucose

## Chemical Properties

CAS No. :	29702-43-0
Formula:	C <sub>6</sub> H <sub>11</sub> FO <sub>5</sub>
Molecular Weight:	182.15
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	2-deoxy-2-fluoro-D-Glucose (2-FG) is a derivative of glucose with anticancer activity. It inhibits the growth of 143B osteosarcoma cells grown under normoxic and hypoxic conditions when used at concentrations of 6 and 24 mM.
Targets(IC50)	Others

## Solubility Information

Solubility	PBS (pH 7.2): 10 mg/mL (54.9 mM), Sonication is recommended. DMSO: 30 mg/mL (164.7 mM), Sonication is recommended. DMF: 30 mg/mL (164.7 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.490 mL	27.4499 mL	54.8998 mL
5 mM	1.098 mL	5.490 mL	10.980 mL
10 mM	0.549 mL	2.745 mL	5.490 mL
50 mM	0.1098 mL	0.549 mL	1.098 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Lampidis, T.J., Kurtoglu, M., Maher, J.C., et al. Efficacy of 2-halogen substituted  $\beta$ -D-glucose analogs in blocking glycolysis and killing "hypoxic tumor cells" *Cancer Chemother. Pharmacol.* 58(6)725-734(2006)

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