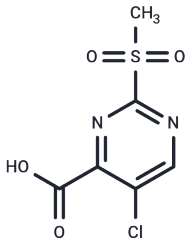
Data Sheet (Cat.No.T4459)

PK11000

Chemical Properties



CAS No. : 38275-34-2

Formula: C6H5ClN2O4S

Molecular Weight: 236.63

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	PK11000 is a p53 targeting compound, has anti-tumor activities through activation of unstable p53.
Targets(IC50)	DNA Alkylator/Crosslinker,MDM-2/p53

Solubility Information

Solubility	DMSO: 43 mg/mL (181.72 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.45 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.226 mL	21.130 mL	42.2601 mL
5 mM	0.8452 mL	4.226 mL	8.452 mL
10 mM	0.4226 mL	2.113 mL	4.226 mL
50 mM	0.0845 mL	0.4226 mL	0.8452 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

Bauer MR, et al. 2-Sulfonylpyrimidines: Mild alkylating agents with anticancer activity toward p53-compromised cells. Proc Natl Acad Sci U S A. 2016 Sep 6;113(36):E5271-80.
Tang Y, Song H, Wang Z, et al. Repurposing antiparasitic antimonials to noncovalently rescue temperature-sensitive p53 mutations. Cell Reports. 2022, 39(2): 110622
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