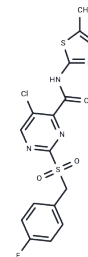


PK11007

Chemical Properties

CAS No. : 874146-69-7
Formula: C₁₅H₁₁ClFN₅O₃S₂
Molecular Weight: 427.86
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	PK11007 is an anti-p53 drug.
Targets(IC50)	Mdm2, Reactive Oxygen Species, p53, ROS, MDM-2/p53
In vivo	Targeting mutant p53 with PK11007 is a potential approach for treating p53-mutated breast cancer, including the subgroup with TN disease[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (233.72 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: 4 mg/mL (9.35 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3372 mL	11.6861 mL	23.3721 mL
5 mM	0.4674 mL	2.3372 mL	4.6744 mL
10 mM	0.2337 mL	1.1686 mL	2.3372 mL
50 mM	0.0467 mL	0.2337 mL	0.4674 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

Synnott N C , Bauer M R , Madden S , et al. Mutant p53 as A Therapeutic Target for the Treatment of Triple-Negative Breast Cancer: Preclinical Investigation with the Anti-p53 Drug, PK11007[J]. Cancer Letters, 2017: 50304383517306225.

Duffy M J , Synnott N C , Crown J . Mutant p53 in breast cancer: potential as a therapeutic target and biomarker[J]. Breast Cancer Research and Treatment, 2018.

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