

PF-9363

## Chemical Properties

CAS No. : 2569009-58-9

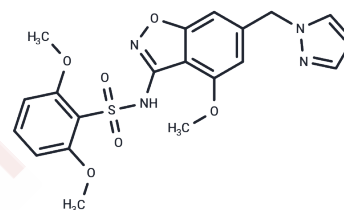
Formula: C<sub>20</sub>H<sub>20</sub>N<sub>4</sub>O<sub>6</sub>S

Molecular Weight: 444.46

Store at low temperature

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	PF-9363 (CTX-3648) is a potent and high selective KAT6A/KAT6B inhibitor. PF-9363 can be used for the research of cancer.
Targets(IC50)	Histone Acetyltransferase
In vitro	PF-9363 (0~1 μM; 1 day) down-regulates the expression of the H3K23Ac biomarker in ZR75-1, T47D, and MCF7 cells[1] and downregulates specific genes involved in the ESR1 pathway, cell cycle, and stem cell pathways. The IC50 values of PF-9363 for ZR75-1 and T47D are 0.3 nM and 0.9 nM, respectively[1].
In vivo	PF-9363 exhibits strong anti-tumor activity in patient-derived xenograft models[1].

## Solubility Information

Solubility	DMSO: 55 mg/mL (123.75 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 (4.5 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.2499 mL	11.2496 mL	22.4992 mL
5 mM	0.450 mL	2.2499 mL	4.4998 mL
10 mM	0.225 mL	1.125 mL	2.2499 mL
50 mM	0.045 mL	0.225 mL	0.450 mL

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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

Shikhar S, et al. First-in-class KAT6A/KAT6B Inhibitor CTx-648 (PF-9363) Demonstrates Potent Anti-tumor Activity in ER+ Breast Cancer with KAT6A Dysregulation  
WO2020254946

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481