

FX-909

Chemical Properties

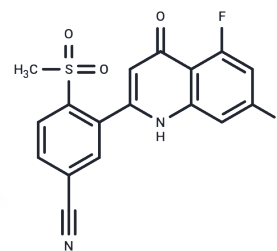
CAS No. : 2924573-90-8

Formula: C₁₇H₁₀F₂N₂O₃S

Molecular Weight: 360.33

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	FX-909 is a covalent peroxisome proliferator-activated receptor gamma (PPAR γ) inverse agonist developed for advanced solid malignancies, including muscle-invasive bladder cancer, and functional profiling and NMR studies demonstrate that FX-909 exhibits enhanced corepressor-selective inverse agonism and superior stabilization of a transcriptionally repressive PPAR γ ligand-binding domain conformation compared with T0070907.
Targets(IC50)	PPAR
In vivo	In the UMUC9 urothelial carcinoma (UC) xenograft mouse model, FX-909 demonstrated significant anti-cancer efficacy. Administration of FX-909 at doses ranging from 0.03 to 1 mg/kg, twice daily (BID) for 21 days, resulted in dose-dependent tumor growth inhibition [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (222.02 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	2.7752 mL	13.8762 mL	27.7523 mL
5 mM	0.555 mL	2.7752 mL	5.5505 mL
10 mM	0.2775 mL	1.3876 mL	2.7752 mL
50 mM	0.0555 mL	0.2775 mL	0.555 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

Mertz J A, et al. Development of a surrogate tissue pharmacodynamic (PD) assay for clinical use with FX-909, a novel inhibitor of the urothelial luminal lineage transcription factor peroxisome proliferator-activated receptor gamma (PPARG). *Cancer Research*, 2023, 83(7_Supplement): 2802-2802.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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