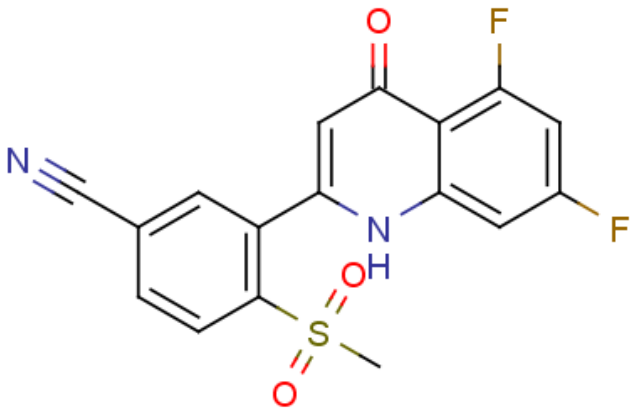
# Name: FX-909 Cat#: EX-A7772

**Target:** PPAR
**Pathway:** Cell Cycle/DNA Damage; Vitamin D Related/Nuclear Receptor

Chemical Structure:

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| Chemical Name | 3-(5,7-difluoro-4-oxo-1,4-dihydroquinolin-2-yl)-4-(methylsulfonyl)benzonitrile |

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|---|---|---|---|
| Molecular Weight | 360.33 | Storage | Powder<br>3 years -20°C;<br>2 years 4°C<br>6 months -80°C in solvent<br>Away from light |
| Formula | C17H10F2N2O3S | | |
| CAS No. | 2924573-90-8 | Synonyms | FX909; FX 909 |

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|---|---|---|---|
| Solubility (25°C) * | In vitro | DMSO | >50mg/mL |
| | | Ethanol | N/A |
| | | Water | N/A |
| | In vivo (should be freshly prepared each time) | In Vivo Add each solvent one by one:<br>1. 10% DMSO >> 90% corn oil<br>Solubility: ⩾ 2.5 mg/mL (6.94 mM);<br>Clear solution | |

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Selleck tests the solubility of all compounds in-house, and the actual

solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.

Preparing Stock Solutions:

| Mass / Volume / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 2.7752 mL | 13.8762 mL | 27.7523 mL |
| 5 mM | 0.5550 mL | 2.7752 mL | 5.5505 mL |
| 10 mM | 0.2775 mL | 1.3876 mL | 2.7752 mL |

DMSO :

*The above data is based on the product molecular weight 360.33.

Biological Activities:

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| **Description** | FX-909 is a covalent peroxisome proliferator-activated receptor gamma (PPARG) inverse agonist. |
| **$IC_{50}$ & Target** | PPARγ |
| **In Vivo** | FX-909 (0.03-1 mg/kg; BID for 21 days) shows anticancer effects in UMUC9 UC xenograft mouse model. |

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|---|---|
| **References** | [1]. 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. |