Proteins

Product Data Sheet



BAY-4931

Cat. No.: HY-148352 CAS No.: 423150-91-8 Molecular Formula: $C_{22}H_{16}CIN_{3}O_{4}$ Molecular Weight: 421.83

Target: PPAR

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

Storage: Powder -20°C 3 years

In solvent

4°C 2 years -80°C 6 months

-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 125 mg/mL (296.33 mM; ultrasonic and warming and heat to 70°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.3706 mL	11.8531 mL	23.7062 mL
	5 mM	0.4741 mL	2.3706 mL	4.7412 mL
	10 mM	0.2371 mL	1.1853 mL	2.3706 mL

Please refer to the solubility information to select the appropriate solvent.

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Description	BAY-4931 is a potent, coval	ent and selective PPARγ inverse-a	gonist with an IC ₅₀ of 0.17 nM ^[1] .
IC ₅₀ & Target	PPAR-γ 0.17 nM (IC ₅₀ , RT112- FABP4-NLucP cellular reporter assay)	mouse PPARγ 0.14 nM (IC ₅₀ , GAL4-NHR- LBD one hybrid reporter assay)	hPPARγ 0.40 nM (IC ₅₀ , GAL4-NHR-LBD one hybrid reporter assay)
In Vitro	BAY-4931 (0-10 uM: 7 days)	inhibits UM-UC-9 proliferation wit	h an ICso of 3.4 nM ^[1] .

BAY-4931 only inhibits CYP2C8 in CYP inhibition test^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation $Assay^{[1]}$

Cell Line:	UM-UC-9 cells
Concentration:	0-10 μΜ

Incubation Time:	7 days
Result:	Inhibited proliferation with an IC ₅₀ of 3.4 nM.

REFERENCES

 $[1]. Or si \, DL, et \, al. \, Discovery \, and \, Structure-Based \, Design \, of \, Potent \, Covalent \, PPARy \, Inverse-Agonists \, BAY-4931 \, and \, BAY-0069. \, J \, Med \, Chem. \, 2022 \, Nov \, 10; 65 (21): 14843-14863.$

Caution: Product has not been fully validated for medical applications. For research use only.

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