CYP19A1/CYP11B2-IN-1

MedChemExpress

Cat. No.:	HY-155493		
CAS No.:	183500-36-9	9	
Molecular Formula:	C ₁₂ H ₁₁ N ₃ O		
Molecular Weight:	213.24		
Target:	Cytochrome	e P450	
Pathway:	Metabolic E	nzyme/Pi	rotease
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.6896 mL	23.4478 mL	46.8955 mL
	5 mM	0.9379 mL	4.6896 mL	9.3791 mL	
		10 mM	0.4690 mL	2.3448 mL	4.6896 mL

BIOLOGICAL ACTIV	ИТҮ	
Description	IC ₅₀ s of 2.3 nM and 29 n	L (Compound X21) is a potent and selective aromatase and aldosterone synthase dual inhibitor with nM for aromatase (CYP19A1) and aldosterone synthase (CYP11B2), respectively. CYP19A1/CYP11B2-IN-liferative and pro-apoptotic activity against the cancer cell. CYP19A1/CYP11B2-IN-1 can be used for cer ^[1] .
In Vitro	inhibition on MCF-7 and CYP19A1/CYP11B2-IN-1 modulating the PI3K/AI CYP19A1/CYP11B2-IN-1	L (700 nM, 24 h) significantly inhibits the phosphorylation of mTOR in MCF-7 cells, thereby negatively kt/mTOR axis ^[1] . L (20-30 μM) has no significant inhibition of hERG and Nav1.5, indicating no toxicity to the heart ^[1] . ently confirmed the accuracy of these methods. They are for reference only.
	Cell Line:	MCF-7 and MDA-MB-231 cells
	Concentration:	0.001-100 μΜ

Product Data Sheet

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Incubation Time:	24-72 h
Result:	Inhibited the MCF-7 cells proliferation with an IC ₅₀ of 0.26±0.03 μ M. Inhibited the MDA-MB-231 cells proliferation with an IC ₅₀ of 27.10 ± 5.15 μ M. Confirmed no toxicity on normal cells.
Apoptosis Analysis ^[1]	
Cell Line:	MCF-7 and MDA-MB-231 cells
Concentration:	0.35-1 μΜ, 10-50 μΜ
Incubation Time:	24 h
Result:	Increase in the extent of DNA fragmentation. Increased the apoptotic signal in MDA-MB-231 cells with higher concentrations (> 40

REFERENCES

[1]. Tinivella A, et al. Discovery of a Potent Dual Inhibitor of Aromatase and Aldosterone Synthase. ACS Pharmacology & Translational Science. 2023 Nov 23.

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

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