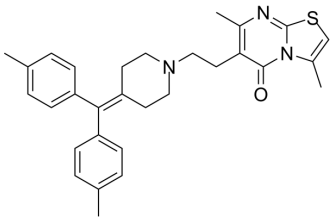
JNJ-3790339

Cat. No.:	HY-148174
CAS No.:	93076-87-0
Molecular Formula:	$C_{30}H_{33}N_3OS$
Molecular Weight:	483.67
Target:	DGK
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	JNJ-3790339, a Ritanserin (HY-10791) analog, is a potent and selective diacylglycerol kinase (DGKα) inhibitor with an IC_{50} of 9.6 μM. JNJ-3790339 has induction of toxicity in malignant cells, and improves ability to upregulate T cell activation[1].
IC_{50} & Target	IC_{50}: 9.6 μM (DGKα)[1]
In Vitro	JNJ-3790339 (5-40 μM; 48 h) exhibits cytotoxic efficacy against A375, U251 and Jurkat T[1]. JNJ-3790339 (5 μM; 6 h) promotes activation of primary murine T cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay[1]

Cell Line:	A375, U251 and Jurkat T
Concentration:	5, 15, 25 and 40 μM
Incubation Time:	48 h
Result:	Exhibited cytotoxic efficacy against cancer cells in a dose-dependent manner.

RT-PCR[1]

Cell Line:	Jurkat T
Concentration:	5 μM
Incubation Time:	6 h
Result:	Displayed high activation response with significantly increased CD69 and TNFα expression.

REFERENCES

[1]. Granade ME, et al. Identification of ritanserin analogs that display DGK isoform specificity. Biochem Pharmacol. 2022 Mar;197:114908.

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

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