DS-6930

®

MedChemExpress

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-124581 1242328-82-0 C ₂₃ H ₂₁ N ₃ O ₄ 403.43 PPAR Cell Cycle/DNA Damage Please store the product under the recommended conditions in the Certificate of	
Storage.	Analysis.	

Description	DS-6930 is a potent and selective agonist of PPARy, with an EC ₅₀ of 41 nM. DS-6930 could robust reduce plasma glucose (PG), and with fewer PPARy-related adverse effects than Rosiglitazone. DS-6930 can be used for the research of diabetes ^[1] .		
IC ₅₀ & Target	PPARγ 41 nM (EC50)		
In Vitro	DS-6930 exhibits high potency in vitro with an intermediate PPARγ agonist activity (EC ₅₀ =41 nM, E _{max} =68%), and possesses high PPARα or PPARδ selectivity (13% PPARα activation at 10 μM and no PPARδ activation at 10 μM) ^[1] . DS-6930 (10-100 μM) exhibits lower cell toxicity at 100 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	 DS-6930 (0.1-3 mg/kg; p.o. for 3 weeks) decreases plasma glucose (PG) levels in a dose-dependent manner in rats^[1]. DS-6930 (100-1000 mg/kg; p.o.for 4 weeks) does not affect any liver enzyme activities and has no remarkable change in relative heart weigh in F344 rats^[1]. DS-6930 exhibits C_{max}=0.0792 µg/mL, T_{max}=1.8 h, and AUC_{0-24h}=0.861 h•µg/mL following oral (0.3 mg/kg) administration day 22 in rats^[1]. DS-6930 exhibits C_{max}=2.25 µg/mL, T_{max}=5.0 h, T_{1/2}=13.5 h, and AUC_{last}=23.5 h•µg/mL following oral (3 mg/kg) administration in cynomolgus monkeys^[1]. DS-6930 exhibits excellent bioavailability (F=89%), total body clearance (CL=2.06 mL/min/kg), and distribution volume steady state (Vss=0.36 L/kg) following intravenous (1 mg/kg) administration in cynomolgus monkeys^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. 		
	Animal Model:	Male ZDF rats ^[1]	
	Dosage:	0.1, 0.3, 1, 3 mg/kg	
	Administration:	P.o. daily for 3 weeks	
	Result:	47% PG reduction at dose of 0.3 mg/kg vs vehicle control.	
	Animal Model:	Male ZDF rats ^[1]	

Dosage:	0.3 mg/kg (Pharmacokinetic Analysis)
Administration:	P.o. daily for 22 days
Result:	С _{max} =0.0792 µg/mL; T _{max} =1.8 h; AUC _{0-24h} =0.861 h•µg/mL.

REFERENCES

[1]. Shinozuka T, et, al. Discovery of DS-6930, a potent selective PPARy modulator. Part II: Lead optimization. Bioorg Med Chem. 2018 Oct 1;26(18):5099-5117.

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

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