THR-β agonist 6

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Cat. No.:	HY-149218	0 //
CAS No.:	2791290-58-7	HN
Molecular Formula:	$C_{20}H_{14}Cl_2N_6O_3$	N-N
Molecular Weight:	457.27	
Target:	Thyroid Hormone Receptor	CI
Pathway:	Vitamin D Related/Nuclear Receptor	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	O N

BIOLOGICAL ACTIV			
Description	THR-β agonist 6 is an orally for THR-β and THR-α, respec		HR-β) agonist with EC ₅₀ s of 0.03 μM and 0.22 μM r-to-serum ratio of 93:1 in mice. THR-β agonist 6
IC ₅₀ & Target	IC50: 0.03 μM (THR-β) and 0.	.22 μM (THR-α) ^[1]	
In Vivo	serum total cholesterol and THR-β agonist 6 (3, 10 mg/kg cholesterol) levels by 62.1 ar THR-β agonist 6 (3, 10 mg/kg 16-, and 3-fold ^[1] .	nd 53.6% at both 10 and 3 mg/kg with efficacy in	nnner ^[1] . of TC and potently decreases serum LDL-C (LDL-
			PO (30 mg/kg)
	T _{ma}	_{ax} (h)	8.7
	C _{max} (ng/mL)		2830
	AUC _{last} (h*ng/mL)		37536
	t _{1/2} (h)		8.7
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model: Male C57BL/6J mice (4-5 weeks) fed a high-fat die		at diet (HFD) for 10 weeks ^[1]
	Dosage: 3, 10 mg/kg		
	Administration:	Orally; once daily for 6 weeks	

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Result:	Prominently reduced HFD-CCl4-induced (CCl4; ip; 0.05 mL/kg) serum total cholesterol and
	LDL-cholesterol levels in a dose-dependent manner.
	Markedly reduced the liver steatosis and inflammation score.

REFERENCES

[1]. Liuyu Hu, et al. Discovery of Highly Potent and Selective Thyroid Hormone Receptor β Agonists for the Treatment of Nonalcoholic Steatohepatitis. J Med Chem. 2023 Mar 9;66(5):3284-3300.

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

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