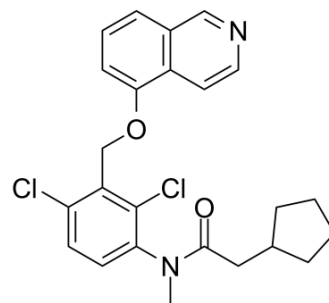


AS1708727

Cat. No.:	HY-123046
CAS No.:	1253226-93-5
Molecular Formula:	C ₂₄ H ₂₄ Cl ₂ N ₂ O ₂
Molecular Weight:	443.37
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AS1708727 is an orally active Foxo1 inhibitor, with EC ₅₀ values of 0.33 μM and 0.59 μM for G6Pase and PEPCK, respectively ^[1] .
In Vitro	AS1708727 suppresses increases in blood glucose level by inhibiting gluconeogenic gene expression ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. RT-PCR ^[1]
	Cell Line: Fao cells, derived from the H4IIE hepatoma cell line.
	Concentration: 0.1-3000 μM.
	Incubation Time: 18 h.
	Result: Showed dose-dependent reduction in mRNA levels for G6Pase and PEPCK.
In Vivo	AS1708727 (30 to 300 mg/kg, orally) reduces both blood glucose and triglyceride levels, exhibiting anti-diabetic effects ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
	Animal Model: db/db mice aged six weeks ^[1] .
	Dosage: 100-1000 mg/kg (Pharmacokinetic Analysis).
	Administration: Orally.
	Result: C _{max} was 26.7 μM and maximum drug concentration time (T _{max}) of 0.5 h at 300 mg/kg ^[1] . Liver concentration of AS1708727 at 0.5-2 h after oral administration was 3.7- to 5.4-fold higher than the plasma concentration, indicating good liver transition of AS1708727 ^[1] .
	Animal Model: Diabetic model mice ^[1] .
	Dosage: 30 to 300 mg/kg.
Administration: Orally twice daily for 4 days.	

Result:

Blood glucose level was significantly reduced at 300 mg/kg^[1].
Plasma alanine aminotransferase (ALT) and aspartate aminotransferase (AST) levels were significantly reduced at 300 mg/kg^[1].
G6Pase and PEPCK mRNA levels were significantly reduced at dosages of 100 and 300 mg/kg^[1].

REFERENCES

[1]. Hirotsugu Tanaka, et al. Effects of the Novel Foxo1 Inhibitor AS1708727 on Plasma Glucose and Triglyceride Levels in Diabetic Db/Db Mice. *Eur J Pharmacol.* 2010 Oct 25;645(1-3):185-91.

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

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