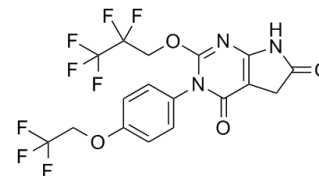


D5D-IN-326

Cat. No.:	HY-117427
CAS No.:	1236767-85-3
Molecular Formula:	C ₁₇ H ₁₁ F ₈ N ₃ O ₄
Molecular Weight:	473.27
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	D5D-IN-326 is a selective, orally active delta-5 desaturase (D5D) inhibitor, with IC ₅₀ s of 72 and 22 nM for rat and human D5D in enzymic and cell-based assays, respectively, has no effect on D6D or D9D activity. D5D-IN-326 reduces insulin resistance and decreases body weight in diet-induced obese C57BL/6J mice ^[1] .
IC₅₀ & Target	IC ₅₀ : 72 nM (Rat D5D), 22 nM (Human D5D) ^[1]
In Vitro	D5D-IN-326 is a selective, orally active delta-5 desaturase (D5D) inhibitor, with IC ₅₀ s of 72 and 22 nM for rat and human D5D in enzymic and cell-based assays, respectively, has no effect on D6D or D9D activity ^[1] .
In Vivo	D5D-IN-326 (0.1, 1, and 10 mg/kg, p.o. for 6 weeks) gradually decreases body weight at 10 mg/kg, but lowers doses are not effective in DIO mice after treatment for 6 weeks ^[1] . D5D-IN-326 (10 mg/kg, p.o. for 6 weeks) also significantly decreases gene expression levels of Ccl2, Cd68, Adgre1, and Il6, decreases epididymal Lep and Adipoq mRNAs which are significantly increased in HFD DIO mice ^[1] .

REFERENCES

[1]. Yashiro H, et al. A Novel Selective Inhibitor of Delta-5 Desaturase Lowers Insulin Resistance and Reduces Body Weight in Diet-Induced Obese C57BL/6J Mice. PLoS One. 2016 Nov 10;11(11):e0166198.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA