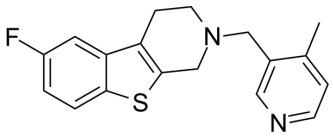
CYP17-IN-1

Cat. No.:	HY-101516
CAS No.:	2093317-51-0
Molecular Formula:	$C_{18}H_{17}FN_2S$
Molecular Weight:	312.4
Target:	Cytochrome P450
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CYP17-IN-1 (compound 9c) is a potent and orally active CYP17 inhibitor against rat and human CYP17 with IC_{50}s of 15.8 and 20.1 nM[1].
IC_{50} & Target	IC50: 15.8 nM (Rat CYP17), 20.1 nM (Human CYP17)[1]
In Vitro	CYP17-IN-1 (compound 9c) exhibits an IC_{50} value of 8.5 μM against CYP3A4[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	CYP17-IN-1 (compound 9c) reduces plasma testosterone level in a dose-dependent manner in Sprague-Dawley rats[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wang M, et al. Discovery of novel 1,2,3,4-tetrahydrobenzo[4, 5]thieno[2, 3-c]pyridine derivatives as potent and selective CYP17 inhibitors. Eur J Med Chem. 2017 May 26;132:157-172.

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