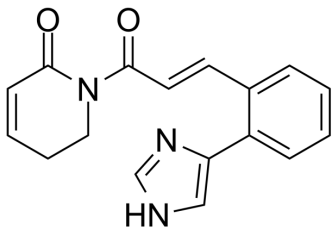
ZC0101

Cat. No.:	HY-147772
CAS No.:	2541604-52-6
Molecular Formula:	$C_{17}H_{15}N_3O_2$
Molecular Weight:	293.32
Target:	Indoleamine 2,3-Dioxygenase (IDO); Apoptosis; Reactive Oxygen Species
Pathway:	Metabolic Enzyme/Protease; Apoptosis; Immunology/Inflammation; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ZC0101 is a potent, orally active IDO1 and TrxR dual inhibitor with IC_{50} values of 0.084 μM and 7.98 μM, respectively. ZC0101 effectively induces apoptosis and ROS accumulation in cancer cells[1].	
IC_{50} & Target	IDO1 0.084 μM (IC_{50})	TrxR 7.98 μM (IC_{50})
In Vivo	ZC0101 (60 mg/kg; p.o.; once) effectively suppresses IDO1 activity in vivo[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Fan QZ, et al. Design, synthesis, and biological evaluation of a novel indoleamine 2,3-dioxigenase 1 (IDO1) and thioredoxin reductase (TrxR) dual inhibitor. Bioorg Chem. 2020 Dec;105:104401.

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