## Pks13-TE inhibitor 2

Cat. No.:	HY-151598	
Molecular Formula:	C <sub>22</sub> H <sub>19</sub> NO <sub>5</sub>	O OH
Molecular Weight:	377.39	
Target:	Bacterial	
Pathway:	Anti-infection	√_N O
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Diological Activity				
Description	Pks13-TE inhibitor 2 (compound 32) is a 13-Thioesterase (Pks13-TE) inhibitor (IC <sub>50</sub> =1.30 μM). Pks13-TE inhibitor 2 shows good anti-tuberculosis activity against both agent-sensitive and drug-resistant Mtb strains (MIC=0.0039-0.0078 μg/mL). Pks13-TE inhibitor 2 can be used in studies of multidrug-resistant TB and extensively drug-resistant TB <sup>[1]</sup> .			
IC <sub>50</sub> & Target	IC50: 1.30 μM (Pks13-TE) <sup>[1]</sup> .			
In Vitro	Pks13-TE inhibitor 2 (0-5.43 μM; 7 days) demonstrates potent activities against DS (drug-susceptible Mtb strain)- tuberculosis)-TB and DR (drug-resistant strain of Mtb-tuberculosis)-TB strains with MIC range of 0.0039-0.0078 μg/mL <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>			
	Cell Line:	DS (drug-susceptible Mtb strain)-tuberculosis (V4207), MDR (multidrug-resistant strain of Mtb, resistance to isoniazid and rifampin)-tuberculosis (V2475 and KZN494), XDR (extensively drug-resistant strain of Mtb resistant to isoniazid, rifampin, levofloxacin ofloxacin, and kanamycin)-tuberculosis (TF274 and R506) strains		
	Concentration:	0-5.43 μM (0-2048 μg/mL)		
	Incubation Time:	7 days		
	Result:	Inhibited V4207/DS Mtb strain (MIC=0.0078 μg/mL) and the MIC values for V2475/MDR, KZN494/MDR, TF274/XDR and R506/XDR Mtb strains were 0.0039 μg/mL.		

## REFERENCES

[1]. Zhang W, et al. Structure-Based Optimization of Coumestan Derivatives as Polyketide Synthase 13-Thioesterase(Pks13-TE) Inhibitors with Improved hERG Profiles for Mycobacterium tuberculosis Treatment. J Med Chem. 2022 Oct 13;65(19):13240-13252.

## Product Data Sheet



## 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