

Product Data Sheet

TAM-16

Cat. No.:HY-116838CAS No.:2030241-59-7Molecular Formula: $C_{22}H_{24}N_2O_4$ Molecular Weight:380.44Target:BacterialPathway:Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

BIOLOGICAL ACTIVITY

promising activity against My TAM-16 (compound 1) inhibi TAM-16 (0-10 µM) inhibits My	y active polyketide synthase 13 (Pks13) inhibitor with an IC $_{50}$ value of 0.32 μ M. TAM-16 has ycobacterium tuberculosis. TAM-16 inhibits hERG cardiac ion channel ^{[1][2]} . ts the growth of M. tuberculosis strain H37Rv with an IC $_{50}$ value of 0.08 μ M ^[1] . ycobacterium tuberculosis by targeting Pks13 ^[1] .
TAM-16 (0-10 μM) inhibits My	
	confirmed the accuracy of these methods. They are for reference only.
TB infection models ^[2] .	ng/kg; p.o.; daily, for 14 days) prevents the development of characteristic lung lesions in murine confirmed the accuracy of these methods. They are for reference only.
Animal Model:	BALB/c mice with tuberculosis (TB) model ^[2]
Dosage:	200 mg/kg
Administration:	oral administration; daily, for 14 days
Result:	Had a significant reduction in lung CFU counts by $\hbox{$\boxtimes 0.9$ log}_{10}$ compared with the untreated control mice
	TB infection models ^[2] . MCE has not independently Animal Model: Dosage: Administration:

REFERENCES

[1]. Scullion P, et, al. Optimization of TAM16, a Benzofuran That Inhibits the Thioesterase Activity of Pks13; Evaluation toward a Preclinical Candidate for a Novel Antituberculosis Clinical Target. J Med Chem. 2022 Jan 13;65(1):409-423.

[2]. Aggarwal A, et, al. Development of a Novel Lead that Targets M. tuberculosis Polyketide Synthase 13. Cell. 2017 Jul 13;170(2):249-259.e25.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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