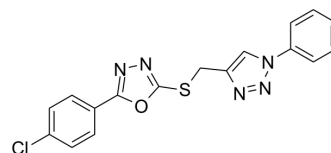


ML338

Cat. No.:	HY-136348
CAS No.:	1630160-25-6
Molecular Formula:	C ₁₇ H ₁₂ ClN ₅ OS
Molecular Weight:	369.83
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ML338 is a selective small molecule inhibitor probe of non-replicating <i>Mycobacterium tuberculosis bacilli</i> and is against the non-replicating M. tuberculosis with IC ₉₀ and IC ₉₉ values of 1 μM and 4 μM, respectively by CFU. ML338 is an invaluable tool for identifying both essential functions and vulnerabilities of the M. tuberculosis bacilli in the nutrient deprivation states. ML338 can be used for the study of M. tuberculosis chemotherapy ^[1] .
IC₅₀ & Target	IC ₉₀ : 1 μM (non-replicating Mycobacterium tuberculosis bacilli) IC ₉₉ : 4 μM (non-replicating Mycobacterium tuberculosis bacilli)
In Vitro	ML338 (0-50 μM) has potency and selectivity against non-replicating M. tuberculosis with an IC ₉₀ of 1 μM. Additionally, ML338 have an IC ₉₉ against non-replicating M. tuberculosis (4 μM) which is excellent relative to current TB drugs ^[1] . ML338 (0-50 μM; 48 hours) shows no toxicity to J774 macrophage cells up to 50 μM, the highest concentration ^[1] . ML338 is against the non-replicating M. tuberculosis with IC ₉₀ and IC ₉₉ values of 1 μM and 4 μM, respectively by CFU. Additionally, it against the replicating M. tuberculosis with IC ₉₀ and IC ₉₉ values of 62 μM and 62 μM, respectively by CFU ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Partha P. Nag, et al. Elucidation of the Physiology of Non-Replicating, Drug Tolerant Mycobacterium tuberculosis With the Aid of the Small Molecule Probe ML338. Review

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

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