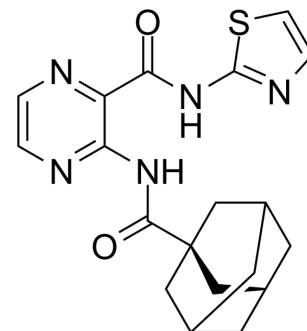


Antibacterial agent 118

Cat. No.:	HY-143290
Molecular Formula:	C ₁₉ H ₂₁ N ₅ O ₂ S
Molecular Weight:	383.47
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antibacterial agent 118 (compound 20) is an antimycobacterial agent. Antibacterial agent 118 shows antibacterial activity against Mtb H37Ra, M. aurum, M. smegmatis, Mtb H37Rv and M. avium with MIC values of 40.7, 10.2, 163.0, 62.5 and 62.5 μM, respectively. Antibacterial agent 118 can be used for the research of tuberculosis ^[1] .								
IC₅₀ & Target	IC ₅₀ : 68 μM (Hep G2) ^[1]								
In Vitro	<p>Antibacterial agent 118 (1-1000 μM; 24 h) shows cytotoxicity towards Hep G2 cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Hep G2 cell line</td> </tr> <tr> <td>Concentration:</td> <td>1-1000 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Inhibited Hep G2 cells growth with IC₅₀ value of 68 μM.</td> </tr> </table>	Cell Line:	Hep G2 cell line	Concentration:	1-1000 μM	Incubation Time:	24 hours	Result:	Inhibited Hep G2 cells growth with IC ₅₀ value of 68 μM.
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Concentration:	1-1000 μM								
Incubation Time:	24 hours								
Result:	Inhibited Hep G2 cells growth with IC ₅₀ value of 68 μM.								

REFERENCES

[1]. Juhás M, et al. Design, synthesis and biological evaluation of substituted 3-amino-N-(thiazol-2-yl)pyrazine-2-carboxamides as inhibitors of mycobacterial methionine aminopeptidase 1. Bioorg Chem. 2022 Jan;118:105489.

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

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