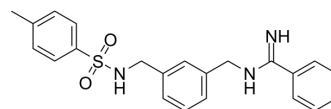


iNOS inhibitor-10

Cat. No.:	HY-152536
CAS No.:	2918773-63-2
Molecular Formula:	C ₂₂ H ₂₃ N ₃ O ₂ S
Molecular Weight:	393.5
Target:	NO Synthase
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	iNOS inhibitor-10 is an iNOS inhibitor (IC ₅₀ : 65 nM). iNOS inhibitor-10 has antiproliferative effect against triple negative breast cancer cells ^[1] .									
IC₅₀ & Target	iNOS 0.065 μM (IC ₅₀)	eNOS >50 μM (IC ₅₀)								
In Vitro	<p>iNOS inhibitor-10 (Compound 1b, 1 μM) inhibits iNOS activity by 83%, and is inactive against eNOS^[1].</p> <p>iNOS inhibitor-10 (0.001-100 μM, 5 days) reduces cell viability of MDA-MB-231 cells^[1].</p> <p>iNOS inhibitor-10 (25 μM, 24 h) prevents migration of MDA-MB-231 cells^[1].</p> <p>iNOS inhibitor-10 (measured in liver microsomes) shows a reasonably metabolic stability, with a t_{1/2} of 38 min CL_{int} of 39.6 mL/min/Kg^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MDA-MB-231</td> </tr> <tr> <td>Concentration:</td> <td>0.001-100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>5 days</td> </tr> <tr> <td>Result:</td> <td>Inhibited cell viability with an EC₅₀ value of 24.71 μM.</td> </tr> </table>		Cell Line:	MDA-MB-231	Concentration:	0.001-100 μM	Incubation Time:	5 days	Result:	Inhibited cell viability with an EC ₅₀ value of 24.71 μM.
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Concentration:	0.001-100 μM									
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Result:	Inhibited cell viability with an EC ₅₀ value of 24.71 μM.									

REFERENCES

[1]. Carrión MD, et al. New amidine-benzenesulfonamides as iNOS inhibitors for the therapy of the triple negative breast cancer. Eur J Med Chem. 2023 Feb 15;248:115112.

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

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