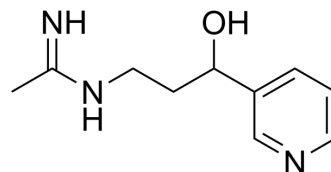


## NOS-IN-3

Cat. No.:	HY-115917
CAS No.:	2761725-68-0
Molecular Formula:	C <sub>10</sub> H <sub>15</sub> N <sub>3</sub> O
Molecular Weight:	193.25
Target:	NO Synthase
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	NOS-IN-3 (Compound 9a) is a potent, selective, imidamide derived NOS inhibitor with an IC <sub>50</sub> against iNOS of 4.6 μM, without inhibiting eNOS. NOS-IN-3 has little toxicity and can be studied in the research of inducible isoform involved diseases, such as septic shock <sup>[1]</sup> .									
<b>IC<sub>50</sub> &amp; Target</b>	iNOS	nNOS								
<b>In Vitro</b>	<p>NOS-IN-3 (Compound 9a) shows high iNOS selectivity without eNOS inhibition activity<sup>[1]</sup>.          NOS-IN-3 (0-100 μM, 30 min) has little toxicity<sup>[1]</sup>.          MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>HUVECs</td> </tr> <tr> <td>Concentration:</td> <td>10, 20, 50, 100, 500 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>30 min</td> </tr> <tr> <td>Result:</td> <td>Had little toxicity, only at the concentration above 100 μM, the cell viability was significantly (approximately 20%) reduced.</td> </tr> </table>		Cell Line:	HUVECs	Concentration:	10, 20, 50, 100, 500 μM	Incubation Time:	30 min	Result:	Had little toxicity, only at the concentration above 100 μM, the cell viability was significantly (approximately 20%) reduced.
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### REFERENCES

[1]. Fabio Arias, et al. Bioactive imidamide-based compounds targeted against nitric oxide synthase. Bioorg Chem. 2022 Feb 2;120:105637.

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

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