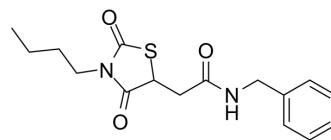


## Urease-IN-5

Cat. No.:	HY-152669
Molecular Formula:	C <sub>16</sub> H <sub>20</sub> N <sub>2</sub> O <sub>3</sub> S
Molecular Weight:	320.41
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Urease-IN-5 is an inhibitor of urease with an IC <sub>50</sub> value of 1.473 μM. Urease-IN-5 has low cytotoxicity and inhibitory activity on <i>P. vulgaris</i> with an IC <sub>50</sub> value of 17.78 μg/mL <sup>[1]</sup> .								
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 1.473 μM (Urease) <sup>[1]</sup>								
<b>In Vitro</b>	<p>Urease-IN-5 (Compound 6i) (100 μM; 72 h) has insignificant effects on the viability of MOLT-4 cells, and the cell viability percent is 97.8 %<sup>[1]</sup>.</p> <p>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>MOLT-4 cells.</td> </tr> <tr> <td>Concentration:</td> <td>100 μM.</td> </tr> <tr> <td>Incubation Time:</td> <td>72 h.</td> </tr> <tr> <td>Result:</td> <td>Showed low cytotoxicity.</td> </tr> </table>	Cell Line:	MOLT-4 cells.	Concentration:	100 μM.	Incubation Time:	72 h.	Result:	Showed low cytotoxicity.
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### REFERENCES

[1]. Dastyafteh N, et al. New thioxothiazolidinyl-acetamides derivatives as potent urease inhibitors: design, synthesis, in vitro inhibition, and molecular dynamic simulation. *Sci Rep.* 2023 Jan 2;13(1):21.

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

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