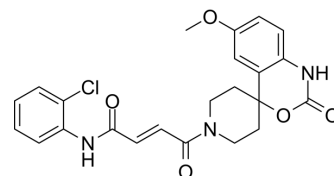


## Antifungal agent 39

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-151423   |
| CAS No.:           | 2725074-94-0  |
| Molecular Formula: | C <sub>23</sub> H <sub>22</sub> ClN <sub>3</sub> O <sub>5</sub>                           |
| Molecular Weight:  | 455.89  |
| Target:            | Fungal  |
| Pathway:           | Anti-infection  |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|                                     |   |            |   |                |             |                  |      |         |   |
|-------------------------------------|---|------------|---|----------------|-------------|------------------|------|---------|---|
| <b>Description</b>                  | Antifungal agent 39 (Compound 9h) is a broad-spectrum antifungal agent <sup>[1]</sup> .   |            |   |                |             |                  |      |         |   |
| <b>IC<sub>50</sub> &amp; Target</b> | Fungal <sup>[1]</sup>   |            |   |                |             |                  |      |         |   |
| <b>In Vitro</b>                     | <p>Antifungal agent 39 (Compound 9h) (0-512 µg/mL; 24 h) shows excellent antifungal activity against <i>C. albicans</i> and displays good antifungal activity against <i>A. fumigatus</i> and <i>C. neoformans</i><sup>[1]</sup>.<br/>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><i>C. albicans</i> (ATCC 76615), <i>A. flavus</i> (ATCC 16870), <i>A. fumigatus</i> (GIMCC 3.19) and <i>C. neoformans</i> (ATCC 208821)</td> </tr> <tr> <td>Concentration:</td> <td>0-512 µg/mL</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Showed inhibition with MICs of 16 ± 0, 64 ± 0, 32 ± 0 and 32 ± 0 µg/mL against <i>C. albicans</i> (ATCC 76615), <i>A. flavus</i> (ATCC 16870), <i>A. fumigatus</i> (GIMCC 3.19) and <i>C. neoformans</i> (ATCC 208821), respectively.</td> </tr> </table> | Cell Line: | <i>C. albicans</i> (ATCC 76615), <i>A. flavus</i> (ATCC 16870), <i>A. fumigatus</i> (GIMCC 3.19) and <i>C. neoformans</i> (ATCC 208821) | Concentration: | 0-512 µg/mL | Incubation Time: | 24 h | Result: | Showed inhibition with MICs of 16 ± 0, 64 ± 0, 32 ± 0 and 32 ± 0 µg/mL against <i>C. albicans</i> (ATCC 76615), <i>A. flavus</i> (ATCC 16870), <i>A. fumigatus</i> (GIMCC 3.19) and <i>C. neoformans</i> (ATCC 208821), respectively. |
| Cell Line:                          | <i>C. albicans</i> (ATCC 76615), <i>A. flavus</i> (ATCC 16870), <i>A. fumigatus</i> (GIMCC 3.19) and <i>C. neoformans</i> (ATCC 208821)   |            |   |                |             |                  |      |         |   |
| Concentration:                      | 0-512 µg/mL   |            |   |                |             |                  |      |         |   |
| Incubation Time:                    | 24 h  |            |   |                |             |                  |      |         |   |
| Result:                             | Showed inhibition with MICs of 16 ± 0, 64 ± 0, 32 ± 0 and 32 ± 0 µg/mL against <i>C. albicans</i> (ATCC 76615), <i>A. flavus</i> (ATCC 16870), <i>A. fumigatus</i> (GIMCC 3.19) and <i>C. neoformans</i> (ATCC 208821), respectively.   |            |   |                |             |                  |      |         |   |

### REFERENCES

[1]. Xu Y, et al. Spiro[benzoxazine-piperidin]-one derivatives as chitin synthase inhibitors and antifungal agents: Design, synthesis and biological evaluation. *Eur J Med Chem.* 2022 Aug 31;243:114723.

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

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