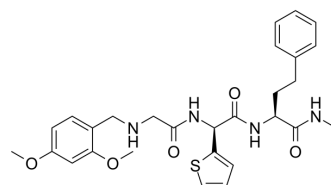


## GID4 Ligand 1

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-151475   |
| CAS No.:           | 3031442-96-0  |
| Molecular Formula: | C <sub>28</sub> H <sub>34</sub> N <sub>4</sub> O <sub>5</sub> S                           |
| Molecular Weight:  | 538.66  |
| Target:            | Ligands for Target Protein for PROTAC   |
| Pathway:           | PROTAC  |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|                                     |   |  |            |                                     |                |       |                  |     |         |   |            |                                     |                |       |                  |        |         |   |
|-------------------------------------|---|--|------------|-------------------------------------|----------------|-------|------------------|-----|---------|---|------------|-------------------------------------|----------------|-------|------------------|--------|---------|---|
| <b>Description</b>                  | GID4 Ligand 1 (compound 88) is a cell-permeable and high-selective GID4 binder (IC <sub>50</sub> =5.4 μM; K <sub>d</sub> =5.6 μM), binds to GID4 in cells (EC <sub>50</sub> =558 nM). GID4 Ligand 1 can be used for the synthesis of PROTACs <sup>[1]</sup> .   |  |            |                                     |                |       |                  |     |         |   |            |                                     |                |       |                  |        |         |   |
| <b>IC<sub>50</sub> &amp; Target</b> | IC <sub>50</sub> : 5.4 μM (GID4) <sup>[1]</sup> .   |  |            |                                     |                |       |                  |     |         |   |            |                                     |                |       |                  |        |         |   |
| <b>In Vitro</b>                     | <p>GID4 Ligand 1 (50 μM; 1 h) shows the ability to engage endogenous GID4 protein in HEK293 cells with considerable selectivity<sup>[1]</sup>.</p> <p>GID4 Ligand 1 (50 μM; 10 min) binds GID4 in lysates of HEK293 cells<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>HEK293 cells (expressing FLAG-GID4)</td> </tr> <tr> <td>Concentration:</td> <td>50 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>1 h</td> </tr> <tr> <td>Result:</td> <td>Exhibited the ability to permeate the cell membrane and engage FLAG-GID4 in living cells.</td> </tr> </table> <p>Western Blot Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>HEK293 cells (expressing FLAG-GID4)</td> </tr> <tr> <td>Concentration:</td> <td>50 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>10 min</td> </tr> <tr> <td>Result:</td> <td>Produced a T<sub>m</sub> shift of 5.4°C.</td> </tr> </table> |  | Cell Line: | HEK293 cells (expressing FLAG-GID4) | Concentration: | 50 μM | Incubation Time: | 1 h | Result: | Exhibited the ability to permeate the cell membrane and engage FLAG-GID4 in living cells. | Cell Line: | HEK293 cells (expressing FLAG-GID4) | Concentration: | 50 μM | Incubation Time: | 10 min | Result: | Produced a T <sub>m</sub> shift of 5.4°C. |
| Cell Line:                          | HEK293 cells (expressing FLAG-GID4)   |  |            |                                     |                |       |                  |     |         |   |            |                                     |                |       |                  |        |         |   |
| Concentration:                      | 50 μM   |  |            |                                     |                |       |                  |     |         |   |            |                                     |                |       |                  |        |         |   |
| Incubation Time:                    | 1 h   |  |            |                                     |                |       |                  |     |         |   |            |                                     |                |       |                  |        |         |   |
| Result:                             | Exhibited the ability to permeate the cell membrane and engage FLAG-GID4 in living cells.   |  |            |                                     |                |       |                  |     |         |   |            |                                     |                |       |                  |        |         |   |
| Cell Line:                          | HEK293 cells (expressing FLAG-GID4)   |  |            |                                     |                |       |                  |     |         |   |            |                                     |                |       |                  |        |         |   |
| Concentration:                      | 50 μM   |  |            |                                     |                |       |                  |     |         |   |            |                                     |                |       |                  |        |         |   |
| Incubation Time:                    | 10 min  |  |            |                                     |                |       |                  |     |         |   |            |                                     |                |       |                  |        |         |   |
| Result:                             | Produced a T <sub>m</sub> shift of 5.4°C.   |  |            |                                     |                |       |                  |     |         |   |            |                                     |                |       |                  |        |         |   |

### REFERENCES

[1]. Chana CK, et al. Discovery and Structural Characterization of Small Molecule Binders of the Human CTLH E3 Ligase Subunit GID4. J Med Chem. 2022 Sep 18.

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

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