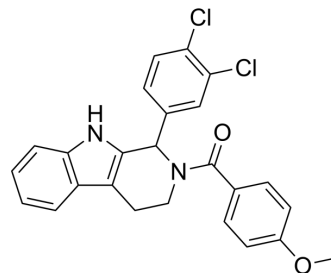


## ABCG2-IN-3

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-119724                                                                                 |
| CAS No.:           | 1942919-63-2                                                                              |
| Molecular Formula: | C <sub>25</sub> H <sub>20</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>2</sub>             |
| Molecular Weight:  | 451.34                                                                                    |
| Target:            | BCRP                                                                                      |
| Pathway:           | Membrane Transporter/Ion Channel                                                          |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|                    |                                                                                                                                                                                                                                                                                                                                 |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b> | ABCG2-IN-3 (Compound 52) is a selective inhibitor for breast cancer resistance protein (ABCG2), with an IC <sub>50</sub> of 0.238 μM. ABCG2-IN-3 reverses the ABCG2-mediated resistance toward SN-38 and inhibit the ATPase activity <sup>[1]</sup> .                                                                           |
| <b>In Vitro</b>    | ABCG2-IN-3 exhibits a cytotoxicity against cells MDCK II BCRP and MDCK wild-type, with CI <sub>50</sub> s of 5.82 and 6.55 μM <sup>[1]</sup> . ABCG2-IN-3 inhibits ATPase with an IC <sub>50</sub> of 0.038 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

### REFERENCES

[1]. Spindler A, et al., Synthesis and Investigation of Tetrahydro-β-carboline Derivatives as Inhibitors of the Breast Cancer Resistance Protein (ABCG2). J Med Chem. 2016 Jul 14;59(13):6121-35.

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

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