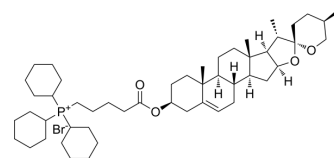


## Antitumor agent-73

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-151286   |
| CAS No.:           | 2812356-72-0  |
| Molecular Formula: | C <sub>50</sub> H <sub>82</sub> BrO <sub>4</sub> P  |
| Molecular Weight:  | 858.06  |
| Target:            | STAT  |
| Pathway:           | JAK/STAT Signaling; Stem Cell/Wnt   |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|                           |  |
|---------------------------|--|
| Description               | Antitumor agent-73 is a <a href="#">Diosgenin</a> (HY-N0177) derivative, which inhibits STAT3 signaling and activates Pdia3/Erp57 exogenously. Antitumor agent-73 shows potent anti-tumor activity against various cancer cell lines, 7.9-341.7-fold stronger than Diosgenin <sup>[1]</sup> .                                    |
| IC <sub>50</sub> & Target | STAT3  |
| In Vitro                  | Antitumor agent-73 (compound 2.2f) shows anti-proliferative activity against cancer cells with IC <sub>50</sub> s of 0.1847 μM (Aspc-1), 4.038 μM (H358), 4.001 μM (HCT116), 0.4483 μM (SW620), respectively <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

### REFERENCES

[1]. Wang L, et al. Synthesis and Antitumor Activity of Diosgenin Hydroxamic Acid and Quaternary Phosphonium Salt Derivatives. ACS Med Chem Lett. 2022 Apr 19;13(5):786-791.

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

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