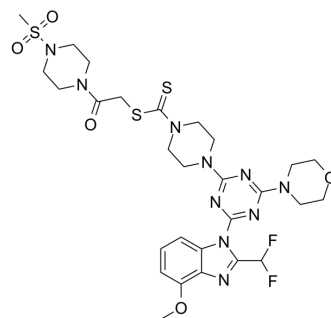


## PI3K $\alpha$ -IN-12

|                    |  |
|--------------------|--|
| Cat. No.:          | HY-149427  |
| CAS No.:           | 2966861-50-5   |
| Molecular Formula: | C <sub>28</sub> H <sub>36</sub> F <sub>2</sub> N <sub>10</sub> O <sub>5</sub> S <sub>3</sub> |
| Molecular Weight:  | 726.84   |
| Target:            | PI3K   |
| Pathway:           | PI3K/Akt/mTOR  |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis.    |



### BIOLOGICAL ACTIVITY

|                           |  |
|---------------------------|--|
| Description               | PI3K $\alpha$ -IN-12 (compound 13) is a highly selective PI3K $\alpha$ inhibitor (IC <sub>50</sub> : 1.2 nM). PI3K $\alpha$ -IN-12 inhibits HCT-116 and U87-MG with IC <sub>50</sub> s values of 0.83 and 1.25 $\mu$ M, respectively. PI3K $\alpha$ -IN-12 (40 mg/kg; IP) causes tumor regression in a U87-MG cell line xenograft mouse model <sup>[1]</sup> . |
| IC <sub>50</sub> & Target | PI3K <sup>[1]</sup>  |

### REFERENCES

[1]. Tang J, et al. Design and Synthesis of 1,3,5-Triazines or Pyrimidines Containing Dithiocarbamate Moiety as PI3K $\alpha$  Selective Inhibitors. ACS Med Chem Lett. 2023 Aug 9;14(9):1266-1274..

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

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