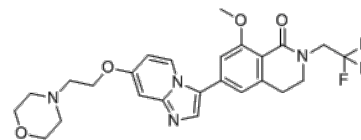


**Product Name** : GLPG3970  
**Cat. No.** : PC-20664  
**CAS No.** : 2403733-82-2  
**Molecular Formula** : C<sub>25</sub>H<sub>27</sub>F<sub>3</sub>N<sub>4</sub>O<sub>4</sub>  
**Molecular Weight** : 504.51  
**Target** : Salt Inducible Kinase (SIK)  
**Solubility** : 10 mM in DMSO



CAS: 2403733-82-2

### Biological Activity

GLPG3970 (GLPG-3970) is a potent, selective first-in-class salt inducible kinase **SIK2/SIK3** inhibitor with IC<sub>50</sub> of 7.8/3.8 nM, respectively.

GLPG3970 exhibits high selectivity against a panel of 372 kinases, weakly inhibits SIK1 with IC<sub>50</sub> of 282 nM.

GLPG3970 displays IC<sub>50</sub> of >17,500 nM, 254 nM, and 79 nM on SIK1, SIK2, and SIK3, respectively in NanoBRET binding assays in HEK293 cells.

GLPG3970 inhibits the production of TNFα and IL-12, and increases the release of IL-10 by primary human myeloid cells and in human whole blood stimulated by LPS.

GLPG3970 (3, 10, or 30 mg/kg twice daily, po) shows concordant results on TNFα and IL-10 in vivo in mice challenged with LPS, displays significant efficacy in a mouse DSS colitis model.

### References

Peixoto C, et al. *J Med Chem*. 2024 Mar 29. doi: 10.1021/acs.jmedchem.3c02246.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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