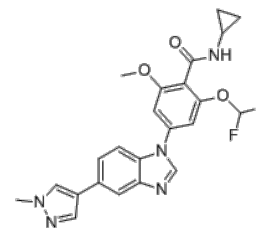


**Product Name** : GLPG3312  
**Cat. No.** : PC-21587  
**CAS No.** : 2340388-72-7  
**Molecular Formula** : C<sub>23</sub>H<sub>21</sub>F<sub>2</sub>N<sub>5</sub>O<sub>3</sub>  
**Molecular Weight** : 453.45  
**Target** : Salt Inducible Kinase (SIK)  
**Solubility** : 10 mM in DMSO



CAS: 2340388-72-7

## Biological Activity

GLPG3312 is a potent and selective **pan-SIK** inhibitor with IC<sub>50</sub> of 2.0/0.7/0.6 nM for **SIK1/SIK2/SIK3**, respectively. GLPG3312 displays high selectivity against a panel of 380 kinases, RIPK2 is the most potent off-target with IC<sub>50</sub> of 19.7 nM, which is 10-fold less potent than that on SIK1 and 30-fold less potent than those on SIK2 and SIK3. GLPG3312 dose-dependently inhibits TNFα release in vitro cell assays using primary human monocytes and monocyte-derived macrophages (MdM) stimulated with LPS, with IC<sub>50</sub> of 17 nM and 34 nM, respectively, also enhances the release of IL-10 at higher concentrations. GLPG3312 displays both anti-inflammatory and immunoregulatory activities in vitro, inhibits the production of TNFα and increased the release of IL-10 in mice stimulated with LPS.

## References

Temal-Laib T, et al. *J Med Chem.* 2023 Dec 26. doi: 10.1021/acs.jmedchem.3c01428.

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

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