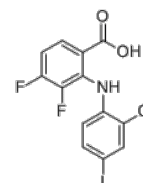


**Product Name** : Zapnometinib  
**Cat. No.** : PC-38429  
**CAS No.** : 303175-44-2  
**Molecular Formula** : C<sub>13</sub>H<sub>7</sub>ClF<sub>2</sub>INO<sub>2</sub>  
**Molecular Weight** : 409.555  
**Target** : MEK (MAP2K)  
**Solubility** : 10 mM in DMSO



## Biological Activity

Zapnometinib (ATR-002, PD0184264) is the active metabolite of CI-1040, a novel **MEK** inhibitor (IC<sub>50</sub>=30.96 nM, cell free assay) with broad antiviral activity against different influenza virus strains, as well as SARS-CoV-2.

Zapnometinib (ATR-002, PD0184264) inhibits ERK-phosphorylation in human PBMCs and intracellular deposition.

Zapnometinib (ATR-002, PD0184264) exhibited antiviral effect against H1N1pdm09 or the H3N2 strain and on MDCK II cells with EC<sub>50</sub> of 4.190-6.356 μM.

Zapnometinib (ATR-002, PD0184264) also efficiently blocks SARS-CoV-2 propagation and alleviates pro-inflammatory cytokine/chemokine responses.

## References

Bruchhagen C, et al. *Sci Rep*. 2018 Jun 14;8(1):9114.

Laure M, et al. *Antiviral Res*. 2020 Jun;178:104806.

Hamza H, et al. *Front Microbiol*. 2021 Feb 12;12:611958.

Schreiber A, et al. *Cell Mol Life Sci*. 2022 Jan 10;79(1):65.

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

E-mail: tech@probechem.com