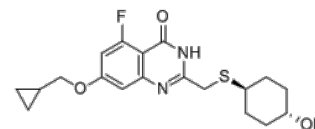


**Product Name** : RBN-012759  
**Cat. No.** : PC-49520  
**CAS No.** : 2360851-29-0  
**Molecular Formula** : C<sub>19</sub>H<sub>23</sub>FN<sub>2</sub>O<sub>3</sub>S  
**Molecular Weight** : 378.46  
**Target** : PARP  
**Solubility** : 10 mM in DMSO



## Biological Activity

RBN-012759 (RBN012759) is a potent and highly selective **PARP14** chemical probe inhibitor with biochemical IC<sub>50</sub> of 3 nM in TR-FRET assays, >300-fold selectivity over all PARP family members.

RBN-012759 is an in vivo chemical probe that selectively engages PARP14 in tissue.

RBN-012759 shows binding affinity for PARP14 with K<sub>d</sub> value of 2 nM determined by surface plasmon resonance (SPR), inhibits mouse PARP14 TR-FRET probe displacement assay with an IC<sub>50</sub> value of 5 nM, which is comparable with its human PARP14 potency (IC<sub>50</sub>=3 nM).

RBN-012759 robustly inhibits PARP14-specific self-MARylation in IFN-γ-stimulated primary human macrophages.

RBN-012759 reversed IL-4-driven gene expression in M2-like macrophages, including CD209, MMP-1 and CLTC. RBN-012759 also decreased the protein level of three M2-like proteins, IL-10, CCL24, and IL1- $\alpha$ , in the supernatants of IL-4-stimulated macrophages.

RBN012759 induced antitumor inflammation in kidney cancer tumor explant models, elicited similar gene expression changes.

## References

Laurie B Schenkel , et al. *Cell Chem Biol.* 2021 Aug 19;28(8):1158-1168.e13.

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

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