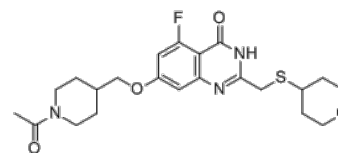


**Product Name** : RBN3143  
**Cat. No.** : PC-20898  
**CAS No.** : 2360853-16-1  
**Molecular Formula** : C<sub>22</sub>H<sub>28</sub>FN<sub>3</sub>O<sub>4</sub>S  
**Molecular Weight** : 449.54  
**Target** : PARP  
**Solubility** : 10 mM in DMSO



CAS: 2360853-16-1

## Biological Activity

RBN3143 (RBN-3143) is a potent, selective, NAD<sup>+</sup>-competitive catalytic inhibitor of **PARP14** with IC<sub>50</sub> of 4 nM, >300-fold selectivity over other ADP-ribosyltransferase (ART) family members.

RBN-3143 broadly suppressed disease phenotypes such as airway mucus, serum-IgE levels, and the accumulation of immune cells and inflammatory cytokines in the BALF in a mouse model of severe, steroid-resistant asthma.

RBN-3143 also suppressed the accumulation of alarmins TSLP, IL-33, and IL-25.

RBN-3143 is the first small molecule inhibitor of PARP14 entering clinical trials.

## References

Niepel M, et, al. European Respiratory Journal 2022 60: 4642.

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

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