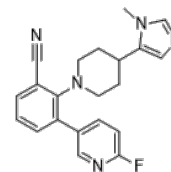


**Product Name** : QP5038  
**Cat. No.** : PC-21630  
**CAS No.** : 3031429-88-3  
**Molecular Formula** : C<sub>21</sub>H<sub>20</sub>FN<sub>5</sub>  
**Molecular Weight** : 361.42  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



CAS: 3031429-88-3

## Biological Activity

QP5038 is a potent inhibitor of glutaminyl-peptide cyclotransferase-like protein (**QPCTL**) with IC<sub>50</sub> of 3.8 nM, shows promising in vitro and in vivo anti-tumor efficacies.

QP5038 shows a comparable inhibition to QPCT.

QP5038 exhibits dose-dependent inhibition of pGlu-CD47 levels in HEK293T cells with IC<sub>50</sub> of 3.3 nM.

QP5038 significantly reduces the binding of human or mouse SIRPα protein to cell surface in HEK293T and tumor cells, blocks the binding of CD47/SIRPα.

QP5038 attenuates the interaction of CD47/SIRPα in a dose-dependent manner with an IC<sub>50</sub> value of 8.5 nM in HEK293T cells, which is more potent than PQ912 and SEN177.

QP5038 significantly attenuates CD47 pyroglutamation in various types of cancer cells.

The anti-cancer effect of QP5038 is due to the activation of immune response.

## References

Lei Yu, et al. *Signal Transduct Target Ther.* 2023 Dec 15;8(1):454.

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

E-mail: tech@probechem.com