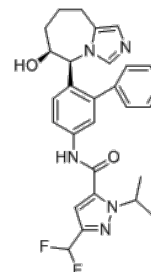


**Product Name** : CSN5i-3  
**Cat. No.** : PC-61193  
**CAS No.** : 2375740-98-8  
**Molecular Formula** : C<sub>28</sub>H<sub>29</sub>F<sub>2</sub>N<sub>5</sub>O<sub>2</sub>  
**Molecular Weight** : 505.57  
**Target** : Proteasome  
**Solubility** : 10 mM in DMSO



## Biological Activity

CSN5i-3 (CSN5 inhibitor 3) is a potent, selective and orally available inhibitor of **CSN5** with IC<sub>50</sub> of 5.8 nM, the proteolytic subunit of COP9 signalosome (CSN).

CSN5i-3 displays >1,000-fold selectivity over JAMM domain proteases (Rpn11 and AMSHLP) and other metalloproteinases. CSN5i-3 inhibits CSN-catalysed Cul1 deneddylation with IC<sub>50</sub> of 5.8 nM, traps the cullin-RING E3 ubiquitin ligases (CRLs) in the neddylation state, and results in the inactivation of a subset of CRLs and the stabilization of their substrates. CSN5i-3 exhibits a differentiating effect on the viability of cancer cells, inhibits growth of a human xenograft in vivo.

## References

Schlierf A, et al. *Nat Commun.* 2016 Oct 24;7:13166.

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

E-mail: tech@probechem.com