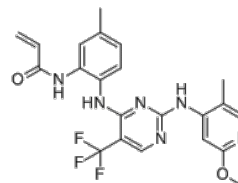


**Product Name** : CC-90003  
**Cat. No.** : PC-35813  
**CAS No.** : 1621999-82-3  
**Molecular Formula** : C<sub>22</sub>H<sub>21</sub>F<sub>3</sub>N<sub>6</sub>O<sub>2</sub>  
**Molecular Weight** : 458.445  
**Target** : ERK  
**Solubility** : 10 mM in DMSO



### Biological Activity

CC-90003 (CC90003) is a potent and selective, covalent **ERK1/2** inhibitor with IC<sub>50</sub> of 10-20 nM, demonstrates excellent selectivity in a 258-kinase biochemical assay panel.

CC-90003 potently inhibits growth of KRAS mutant cell lines with GI<sub>50</sub> of <1 uM, also is active against 28 of 37 (76%) KRAS-mutant cancer cell lines.

CC-90003 shows cytotoxic effects in KRAS mutant PDAC, lung cancer and CRC cell lines, does not significantly inhibit proliferation of normal lung fibroblasts or bronchial epithelial cells.

CC-90003 decreases colony formation ex-vivo and inhibits tumor growth in vivo of KRAS mutant PDX models, induces full regression and prevents regrowth of KRAS mutant Lung PDX model when combined with Docetaxel.

### References

Aronchik I, et al. *Mol Cancer Res.* 2018 Oct 1. pii: molcanres.0554.2017. doi: 10.1158/1541-7786.MCR-17-0554.

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

E-mail: tech@probechem.com