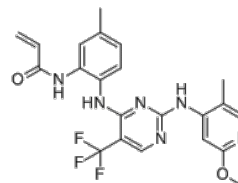


**Product Name** : CC-90003  
**Cat. No.** : PC-35813  
**CAS No.** : 1621999-82-3  
**Molecular Formula** : C<sub>22</sub>H<sub>21</sub>F<sub>3</sub>N<sub>6</sub>O<sub>2</sub>  
**Molecular Weight** : 458.445  
**Target** : ERK  
**Solubility** :



## 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; 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, 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; 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!**

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