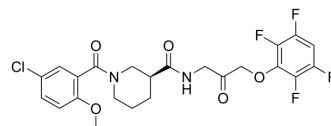


## KRAS inhibitor-22

Cat. No.:	HY-153412
CAS No.:	2042365-57-9
Molecular Formula:	C <sub>23</sub> H <sub>21</sub> ClF <sub>4</sub> N <sub>2</sub> O <sub>5</sub>
Molecular Weight:	516.87
Target:	Ras
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	KRAS inhibitor-22 (compound FB9/6B9) is a potent inhibitor of K-Ras. KRAS inhibitor-22 targets to Kras 4B(G12D) and (G12C), which can be used for cancer research <sup>[1]</sup> .									
<b>In Vitro</b>	<p>KRAS inhibitor-22 (8 μM; 24 h) degrades K-Ras induced by 25 ng/mL EGF, in MIAPaCa-2 cells (G12C) and in L3.6pl cells (G12D) [1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>MIAPaCa-2 cells (G12C) and L3.6pl cells (G12D)</td> </tr> <tr> <td>Concentration:</td> <td>8 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>7 min, 60 min, 24 h, 48 h</td> </tr> <tr> <td>Result:</td> <td>Degraded K-Ras (G12D) in L3.6pl cells during 24 h reatment, but insignificantly at 48 h. Degraded K-Ras (G12C) in MIAPaCa-2 cells during 48 h.</td> </tr> </table>		Cell Line:	MIAPaCa-2 cells (G12C) and L3.6pl cells (G12D)	Concentration:	8 μM	Incubation Time:	7 min, 60 min, 24 h, 48 h	Result:	Degraded K-Ras (G12D) in L3.6pl cells during 24 h reatment, but insignificantly at 48 h. Degraded K-Ras (G12C) in MIAPaCa-2 cells during 48 h.
Cell Line:	MIAPaCa-2 cells (G12C) and L3.6pl cells (G12D)									
Concentration:	8 μM									
Incubation Time:	7 min, 60 min, 24 h, 48 h									
Result:	Degraded K-Ras (G12D) in L3.6pl cells during 24 h reatment, but insignificantly at 48 h. Degraded K-Ras (G12C) in MIAPaCa-2 cells during 48 h.									

### REFERENCES

[1]. McCormick F, et al. Benzoylpiperidines and related compounds as K-Ras modulators and their preparation. World Intellectual Property Organization, WO2016179558 A1. 2016-11-10.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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