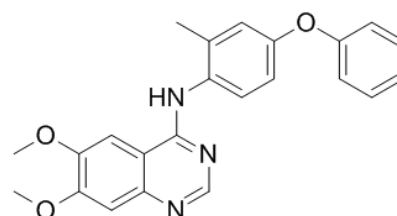


**Product Name** : APS-2-79  
**Cat. No.** : PC-42215  
**CAS No.** : 2002381-25-9  
**Molecular Formula** : C<sub>23</sub>H<sub>21</sub>N<sub>3</sub>O<sub>3</sub>  
**Molecular Weight** : 387.4312  
**Target** : MEK (MAP2K)  
**Solubility** : DMSO: ≥ 33 mg/mL



## Biological Activity

APS-2-79 is a small molecule compound that modulates KSR-dependent MAPK signalling by antagonizing RAF heterodimerization, and the conformational changes required for phosphorylation and activation of KSR-bound MEK (KSR2 IC<sub>50</sub>=120 nM).

APS-2-79 binds to the KSR2-MEK1 complex and impedes the assembly of RAF-KSR-MEK complexes, suppresses KSR-stimulated MEK and ERK phosphorylation and suppresses oncogenic Ras mutations.

APS-2-79 enhances the efficacy of Trametinib against cancer cell lines containing K-Ras mutations.

## References

Dhawan NS, et al. *Nature*. 2016 Sep 1;537(7618):112-116.

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

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