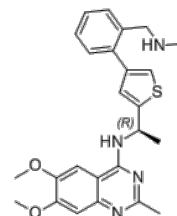


**Product Name** : BAY-293  
**Cat. No.** : PC-36030  
**CAS No.** : 2244904-70-7  
**Molecular Formula** : C<sub>25</sub>H<sub>28</sub>N<sub>4</sub>O<sub>2</sub>S  
**Molecular Weight** : 448.585  
**Target** : Ras  
**Solubility** : 10 mM in DMSO



## Biological Activity

BAY-293 (BAY293, BAY 293) is a potent, cell-active **SOS1** inhibitor that disrupts the KRAS-SOS1 interaction with IC<sub>50</sub> of 21 nM.

BAY-293 displays no significant activity against KRAS WT-CRAF RBD, CDC42 and EGFR (>20 μM).

BAY-293 blocks reloading of KRAS with GTP, does not stabilize KRASWT or KRASG12C.

BAY-293 inhibits the activation of RAS in HeLa cells with IC<sub>50</sub> of 410 nM, efficiently inhibits pERK levels in K562 cells after incubation for 60 min without affecting total protein levels of ERK (IC<sub>50</sub>=180 nM).

BAY-293 shows antiproliferative activity against wild-type KRAS cell lines (K562, MOLM-13; IC<sub>50</sub>~1 μM) and cell lines with KRASG12C mutation (NCI-H358, Calu-; IC<sub>50</sub>~3 μM) by preventing formation of the KRAS-SOS1 complex, also shows synergic antiproliferative effect with covalent KRASG12C inhibitor ARS-853.

BAY-293 is a valuable chemical probe for investigation of the activation of KRAS by SOS1.

## References

Hillig RC, et al. *Proc Natl Acad Sci U S A*. 2019 Jan 25. pii: 201812963. doi: 10.1073/pnas.1812963116.

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

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