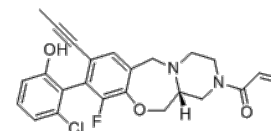


**Product Name** : AZD4747  
**Cat. No.** : PC-20958  
**CAS No.** : 2489226-14-2  
**Molecular Formula** : C<sub>24</sub>H<sub>22</sub>ClFN<sub>2</sub>O<sub>3</sub>  
**Molecular Weight** : 440.90  
**Target** : Ras  
**Solubility** : 10 mM in DMSO



## Biological Activity

AZD4747 (AZD-4747) is a highly potent, selective, covalent and brain-penetrant inhibitor of **KRAS G12C** with IC<sub>50</sub> of 15 nM.

AZD4747 forms the desired covalent bond to Cys12 of KRAS G12C mutant.

AZD4747 potently inhibits the phosphorylation of p90RSK and the growth of KRASG12C mutant tumor cell line NCI-H358 with IC<sub>50</sub> of 12 nM in spheroid proliferation assays, but not the non-KRASG12C tumor cell lines A549 (G12S) and Calu-6 (Q61K).

AZD4747 (100, 30, and 10 mg/kg, daily oral) inhibits the growth of KRASG12C mutant H358 xenograft tumors.

AZD4747 demonstrates the potential for treatment CNS metastases.

## References

Jason G. Kettle, et al. *J Med Chem.* 2023 Jul 13;66(13):9147-9160.

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

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