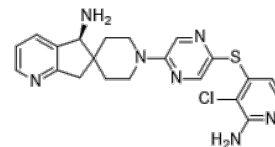


**Product Name** : JAB-3312  
**Cat. No.** : PC-22889  
**CAS No.** : 2245082-05-5  
**Molecular Formula** : C<sub>21</sub>H<sub>22</sub>ClN<sub>7</sub>S  
**Molecular Weight** : 439.97  
**Target** : Protein Phosphatase/PTP  
**Solubility** : 10 mM in DMSO



CAS: 2245082-05-5

### Biological Activity

JAB-3312 is a potent, selective and allosteric **SHP2** inhibitor with binding K<sub>d</sub> of 0.37 nM and enzymatic IC<sub>50</sub> of 1.9 nM. JAB-3312 is inactive in inhibiting other 22 phosphatases (including SHP1 and the PTP domain of SHP2) and 25 kinases. JAB-3312 exhibits IC<sub>50</sub> of 7.4 nM in KYSE-520 antiproliferation assay, and IC<sub>50</sub> of 0.23 nM in p-ERK inhibition assay in KYSE-520 cell line. JAB-3312 (0.1-1 mg/kg, QD, p.o.) exhibited dose-dependent antitumor effects in KYSE-520 and MV-4-11 xenograft models.

### References

Ma C, et al. *J Med Chem*. 2024 Aug 7. doi: 10.1021/acs.jmedchem.4c00360.

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

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