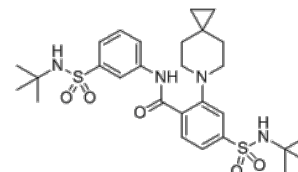


**Product Name** : AM-1882  
**Cat. No.** : PC-21659  
**CAS No.** : 2600559-12-2  
**Molecular Formula** : C<sub>28</sub>H<sub>40</sub>N<sub>4</sub>O<sub>5</sub>S<sub>2</sub>  
**Molecular Weight** : 576.77  
**Target** : Kinesin  
**Solubility** : 10 mM in DMSO



CAS: 2600559-12-2

## Biological Activity

AM-1882 (AM1882) is a potent, selective mitotic kinesin **KIF18A** inhibitor with IC<sub>50</sub> of 230 nM in kinesin-8 microtubule (MT)-ATPase motor assays.

AM-1882 exhibits good specificity against a panel of diverse kinesin motor proteins, except for the KIF19A motor (IC<sub>50</sub>=1820 nM).

AM-1882 shows cellular EC<sub>50</sub> of 21 and 15 nM for cell line pH3+ and PCM foci in mitotic image assays respectively.

AM-1882 has similar inhibitory effects on the motor activity of human and mouse KIF18A.

AM-1882 is active in a subset of cancer cell lines with CCNE1, BRCA1 and RB1 gene alterations and can enhance apoptosis when combined with PARP inhibition.

AM-1882 (50 or 100 mg per kg, i.p.) inhibited tumor growth in OVCAR-8 CDX tumor model.

## References

Marc Payton, et al. *Nat Cancer*. 2023 Dec 27. doi: 10.1038/s43018-023-00699-5.

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

E-mail: tech@probechem.com