

## **Data Sheet**

WWW.PROBECHEM.COM

Global Supplier of Chemical Probes, Inhibitors & Agonists.

 Product Name
 :
 SPHINX31

 Cat. No.
 :
 PC-35908

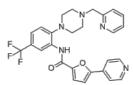
 CAS No.
 :
 1818389-84-2

 Molecular Formula
 :
 C<sub>27</sub>H<sub>24</sub>F<sub>3</sub>N<sub>5</sub>O<sub>2</sub>

 Molecular Weight
 :
 507.517

**Solubility** : 10 mM in DMSO

: SRPK



## **Biological Activity**

Target

SPHINX31 (SPHINX 31) is a potent, selective, ATP competitive inhibitor of Serine/arginine-protein kinase 1 (**SRPK1**) with IC50 of 5.9 nM.

SPHINX31 displays no significant activity against other splicing modulating kinases (CLK family, DYRK1A and DYRK2, DYRK5, SRPK-2/3, PIM1, PIM2 kinases).

SPHINX31 inhibits SRPK1 mediated SRSF1 phosphorylation in PC3 prostate cancer cells with EC50 of 360 nM, dose-dependently switches splicing from VEGF-A165a to VEGF-A165b in RPE cells.

SPHINX31 potently inhibits blood vessel growth in models of choroidal angiogenesis in vivo.

## References

Batson J, et al. *ACS Chem Biol.* 2017 Mar 17;12(3):825-832.

Tzelepis K, et al. *Nat Commun.* 2018 Dec 19;9(1):5378.

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

E-mail: tech@probechem.com