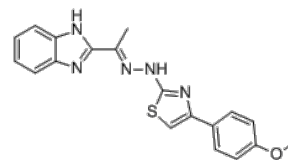


**Product Name** : SFI003  
**Cat. No.** : PC-38631  
**CAS No.** : 2361332-90-1  
**Molecular Formula** : C<sub>19</sub>H<sub>17</sub>N<sub>5</sub>OS  
**Molecular Weight** : 363.439  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



### Biological Activity

SFI003 is novel serine/arginine-rich splicing factor 3 (**SRSF3**) inhibitor, inhibits the proliferation and migration of CRC cells, inhibits the proliferation of HCT-116 with IC<sub>50</sub> of 8.78 uM.

SFI003 blocked SRSF3 activities by directly reducing SRSF3 expression level, also markedly reduced the mRNA levels of CCDC50S and p53α and elevated the mRNA level of p53β.

SFI003 exhibits potent antitumor efficacy in vitro and in vivo, which drives apoptosis of CRC cells via the SRSF3/DHCR24/reactive oxygen species (ROS) axis.

Serine/arginine-rich splicing factor 3 (SRSF3) is an attractive member of the SR protein family.

SRSF3 plays critical roles in the regulation of RNA splicing and many other cellular functions.

SRSF3 regulates cell cycle arrest and apoptosis and promotes CRC cell growth by regulating the expression of ArhGAP30, PKM2, MAP4K4, HIPK2, etc.

### References

Yawen Zhang, et al. *Cell Death Discov.* 2022 May 2;8(1):238.

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

E-mail: tech@probechem.com