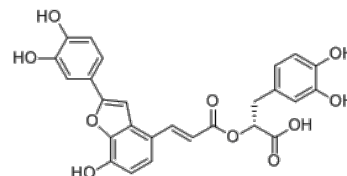


<b>Product Name</b>	: Salvianolic acid C
<b>Cat. No.</b>	: PC-21348
<b>CAS No.</b>	: 115841-09-3
<b>Molecular Formula</b>	: C <sub>26</sub> H <sub>20</sub> O <sub>10</sub>
<b>Molecular Weight</b>	: 492.44
<b>Target</b>	: Histone Methyltransferase (HMTase)
<b>Solubility</b>	: 10 mM in DMSO



## Biological Activity

Salvianolic acid C (YTHDF1 inhibitor SAC) is a selective, competitive small molecule inhibitor of m6A reader **YTHDF1** with IC<sub>50</sub> of 1.4 μM in in vitro binding assays, shows weaker activity against YTHDF2 (IC<sub>50</sub>=29 μM), inhibits YTHDF1 and suppresses oligomerization of YTHDF1.

Salvianolic acid C shows dissociation constant (K<sub>D</sub>) against YTHDF1 with 6.3 and 5.3 μM through individual isothermal titration calorimetry (ITC) assay and microscale thermophoresis (MST), respectively.

Salvianolic acid C dissolves YTHDF1 condensates and counteracts hyperactive YTHDF1 in neurons.

Salvianolic acid C reverses neurodevelopmental deficits in fragile X syndrome (FXS) forebrain organoids.

## References

Zou Z, et al. *Mol Cell*. 2023 Nov 2:S1097-2765(23)00865-1.

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

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