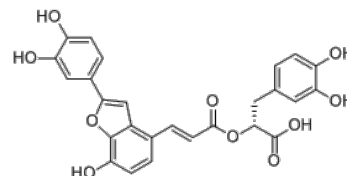


Product Name : Salvianolic acid C
Cat. No. : PC-21348
CAS No. : 115841-09-3
Molecular Formula : C₂₆H₂₀O₁₀
Molecular Weight : 492.44
Target : Histone Methyltransferase (HMTase)
Solubility : 10 mM in DMSO



Biological Activity

Salvianolic acid C (YTHDF1 inhibitor SAC) is a selective, competitive small molecule inhibitor of m6A reader **YTHDF1** with IC₅₀ of 1.4 μM in in vitro binding assays, shows weaker activity against YTHDF2 (IC₅₀=29 μM), inhibits YTHDF1 and suppresses oligomerization of YTHDF1.

Salvianolic acid C shows dissociation constant (K_D) 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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