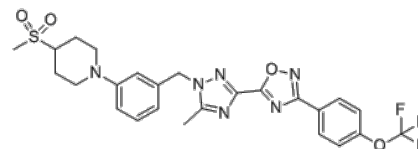


Product Name : IACS-010759
Cat. No. : PC-35205
CAS No. : 1570496-34-2
Molecular Formula : $C_{25}H_{25}F_3N_6O_4S$
Molecular Weight : 562.568
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

IACS-010759 (IACS010759) is a small molecule inhibitor of mitochondrial oxidative phosphorylation (**OXPHOS**), targets complex I of the **mitochondrial electron transport chain**.

IACS-010759 decreases cell viability and increases apoptosis with EC50 values between 1 nM-50 nM across multiple lines. IACS-010759 robustly inhibits proliferation and induces apoptosis in models of brain cancer and acute myeloid leukemia (AML) reliant on OXPHOS, reduces aspartate production that leads to impaired nucleotide biosynthesis.

IACS-010759 potentially inhibits tumor growth of brain cancer and AML in vivo.

References

Molina JR, et al. **Nat Med**. 2018 Jun 11. doi: 10.1038/s41591-018-0052-4.

Vangapandu HV, et al. **Oncotarget**. 2018 May 18;9(38):24980-24991.

Lissanu Deribe Y, et al. **Nat Med**. 2018 Jun 8. doi: 10.1038/s41591-018-0019-5.

Jennifer Molina, et al. Abstract 4971: IACS-010759, a novel inhibitor of complex I in Phase I clinical development to target OXPHOS dependent tumors. **AACR**. DOI: 10.1158/1538-7445.

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

E-mail: tech@probechem.com