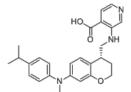


WWW.PROBECHEM.COM

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	TACH101
Cat. No.	:	PC-72259
CAS No.	:	1851412-93-5
Molecular Formula	:	C ₂₆ H ₂₉ N ₃ O ₃
Molecular Weight	:	431.54
Target	:	Histone Demethylase
Solubility	:	10 mM in DMSO



1. Chandtip Chandhasin, et al. **Anticancer Drugs.** 2023 Nov 1;34(10):1122-1131.

Biological Activity

TACH101 (Zavondemstat, QC8222, TACH 101) is a reversible, α -ketoglutarate competitive, selective and potent inhibitor of **KDM4** isoforms A-D with IC50 values of 80 nM against all four isoforms.

TACH101 weakly inhibits KDM5 family members with IC50 of 140-400 nM, and shows significantly lower potency against KDM2, KDM3, KDM6, and KDM7 family members.

TACH101 demonstrated potent increase of H3K36me3 levels (EC50 <0.001 uM, HTRF) in KYSE-150 cell line engineered to overexpress KDM4C and showed potent anti-proliferative activity in multiple cell lines in OncoPanel.

Sub-micromolar levels of TACH101 induced apoptosis in human colorectal (HT-29), esophageal (KYSE-150), and triple negative breast cancer (MDA-MB-231) cell lines with EC50s of 0.033-0.092 uM.

TACH101 triggered effective tumor growth control in xenograft models including colorectal, esophageal, gastric, breast, and lymphoma with tumor growth inhibition of up to 100%.

References