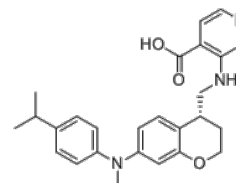


Product Name : TACH101
Cat. No. : PC-72259
CAS No. : 1851412-93-5
Molecular Formula : C₂₆H₂₉N₃O₃
Molecular Weight : 431.54
Target : Histone Demethylase
Solubility : 10 mM in DMSO



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 μ M, 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 μ M.

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

