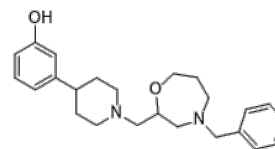


Product Name : FLAV-27
Cat. No. : PC-25914
CAS No. : 2307003-57-0
Molecular Formula : C₂₄H₃₂N₂O₂
Molecular Weight : 380.53
Target : Histone Methyltransferase (HMTase)
Solubility : 10 mM in DMSO



CAS: 2307003-57-0

Biological Activity

FLAV-27 is a potent, selective, SAM-competitive, brain-penetrant inhibitor of histone methyltransferase **G9a** with IC₅₀ of 0.6 nM, with excellent selectivity over GLP (3.2% inhibition at 1 uM).

FLAV-27 demonstrates high selectivity for G9a, showing less than 15% inhibition at 1 μM across a panel of 32 HMTs, including H3K9 (SUV39H1, SUV39H2, and SUV420H1), H3K27 (enhancer of zeste homolog 2 (EZH2)), H3K4 (SET domain containing 7 (SETD7) and mixed lineage leukemia (MLL)), H3K79 (disruptor of telomeric silencing 1-like (DOT1L)), and H4K20 (SETD8), as well as various protein arginine methyltransferases (PRMTs).

FLAV-27 exhibits robust central nervous system bioavailability.

FLAV-27 reduces amyloid beta (Aβ) and p-tau aggregation and restores neuritic complexity in vitro.

FLAV-27 improves mobility, lifespan, and mitochondrial respiration in *Caenorhabditis elegans*.

FLAV-27 rescues memory performance, social behavior, and synaptic structure in mouse models of both late-onset AD (SAMP8) and early-onset AD (5xFAD).

References

Bellver-Sanchis A, et al. *Mol Ther.* 2025 Dec 24:S1525-0016(25)01061-5.

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

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