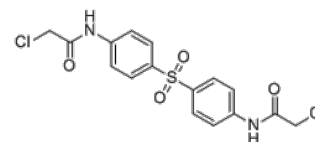


Product Name : TC-E 5003
Cat. No. : PC-49020
CAS No. : 17328-16-4
Molecular Formula : C₁₆H₁₄Cl₂N₂O₄S
Molecular Weight : 401.258
Target : Histone Methyltransferase (HMTase)
Solubility : 10 mM in DMSO



Biological Activity

TC-E 5003 is a selective inhibitor of arginine methyltransferase I (PRMT1) with IC₅₀ of 1.5 μM, does not inhibit PRMT4 or the lysine methyltransferase Set7/9.

TC-E 5003 reduces the expression of inducible NO synthase (iNOS) and expressions of COX-2, TNF-α, IL-1β and IL-6 in RAW264.7 cells.

TC-E 5003 regulates LPS-induced AP-1 transcriptional activity by modulating the c-Jun gene expression.

TC-E 5003 downregulates the nuclear translocation of the nuclear factor (NF)-κB subunits p65 and p50 and AP-1 transcriptional factor c-Jun.

TC-E 5003 directly regulates c-Jun gene expression, and attenuates the activation of IκBα and Src in NF-κB signaling.

References

Eunji Kim, et al. Int J Mol Sci. 2020 Apr 26;21(9):3058.

Elisabeth-Maria Bissinger, et al. Bioorg Med Chem. 2011 Jun 15;19(12):3717-31.

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

E-mail: tech@probechem.com