

Data Sheet

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 Product Name
 : F5446

 Cat. No.
 : PC-72045

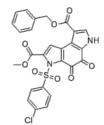
 CAS No.
 : 2304465-89-0

 Molecular Formula
 : C26H17CIN2O8S

 Molecular Weight
 : 552.938

Target : Histone Methyltransferase (HMTase)

Solubility : 10 mM in DMSO



Biological Activity

F5446 (F 5446) is a specific small molecule inhibitor of H3K9me3-specific histone methyltransferase **SUV39H1** with EC50 of 0.496 uM in an in vitro enzymatic activity assay.

F5446 treatment reduced H3K9me3 in the promoter regions of Gzmb, Prf1, Faslg, and Ifng in activated T cells, significantly increased the percentage of granzyme B-, IFN γ -, and FasL-positive T cells, increased the protein levels (MFI) of granzyme B, IFN γ , and FasL.

F5446 increased T-cell effector gene expression to suppress colon carcinoma growth in vivo.

References

Lu C, et al. *Cancer Immunol Res.* 2019 Mar;7(3):414-427.

Lu C, et al. *Cancer Lett.* 2020 Apr 28;476:87-96.

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

E-mail: tech@probechem.com