

Product Name : DB818

Synonyms : —

Cat No. : M28983

CAS Number : 790241-43-9

Molecular Formula : C₁₉H₁₆N₆S

Formula Weight : 360.4

Chemical Name : —

Description : DB818 is a synthetic Homeobox A9 (HOXA9) inhibitor and can be used for research on the treatment of acute myeloid leukaemia associated with HOXA9 overexpression. (In Vitro): In the three AML cell lines, DB818 suppressed growth, induced apoptosis, and down-regulated the expression of HOXA9 transcriptional target genes: MYB proto-oncogene, transcription factor (MYB), MYC proto-oncogene, bHLH transcription factor (MYC), and BCL2 apoptosis regulator (BCL2), while up-regulating that of Fos proto-oncogene, AP-1 transcription factor subunit (FOS). HOXA9 knockdown showed similar effects, except for MYC expression, which differed between DB818-treated and HOXA9-deficient OCI/AML3 cells, suggesting an off-target effect of DB818.

Pathway : Others

Target : Other Targets

Receptor : —

Solubility : —

SMILES : NC(c(cc1)cc2c1nc(-c1ccc(-c3ccc(/C=NN)cc3)s1)[nH]2)=N

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Tomani JCD, et al. In Vitro Antiplasmodial and Cytotoxic Activities of Compounds from the Roots of *Eriosema montanum* Baker f. (Fabaceae). *Molecules*. 2021 May 10;26(9):2795.