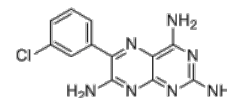


Product Name : Epiblastin A
Cat. No. : PC-38526
CAS No. : 16470-02-3
Molecular Formula : C₁₂H₁₀ClN₇
Molecular Weight : 287.71
Target : Casein Kinase
Solubility : 10 mM in DMSO



Biological Activity

Epiblastin A is a small molecule ATP-competitive casein kinase 1 (CK1) inhibitor with IC₅₀ values of 0.8, 3.7 and 3.8 μM for CK1δ, CK1ε and CK1α, engages CK1 isoenzymes in cell lysate and induces efficient conversion of mouse epiblast stem cells (EpiSCs) to embryonic stem cells (cESCs).

Epiblastin A elicits significant dose-dependent inhibition of the viability of HT29, HCT116, and DLD1 cells with a 48 h IC₅₀ of 6.8, 5.0, and 3.2 μM, respectively.

Epiblastin A attenuated expression of CK1α in CRC primary cultures and PDX samples.

Epiblastin A suppressed tumor volume and tumor weight in a CK1α-dependent manner in DLD1-derived tumor xenograft mice.

References

Ursu A, et al. Cell Chem Biol. 2016 Apr 21;23(4):494-507.

Ren F, et al. Transl Cancer Res. 2020 Mar;9(3):1903-1913.

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

E-mail: tech@probechem.com