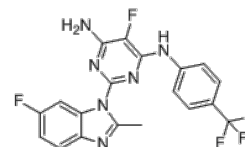


Product Name : PTC-596
Cat. No. : PC-60486
CAS No. : 1610964-64-1
Molecular Formula : C₁₉H₁₃F₅N₆
Molecular Weight : 420.347
Target : BMI-1
Solubility : 10 mM in DMSO



2, Eberle-Singh JA, et al. *Clin Cancer Res.* 2019 Jun 7. pii: clincanres.3281.2018. doi: 10.1158/1078-0432.CCR-18-3281.
3, Maeda A, et al. *Oncotarget.* 2018 Jun 19;9(47):28547-

Biological Activity

PTC-596 (Unesbulin, PTC596) is a novel, orally active, small molecule inhibitor of **BMI-1** that accelerates BMI-1 degradation, inhibits AML cells growth with IC₅₀ of <100 nM.

PTC-596 is a direct **microtubule** polymerization inhibitor.

PTC-596 reduces total BMI-1 protein levels by 87% and 61% in MOLM-13 and OCI-AML3 cells at 100 nM, induces apoptosis and reduces the levels of ubiquitylated histone H2A.

PTC-596 downregulates MCL-1 and induces p53-independent mitochondrial apoptosis in acute myeloid leukemia progenitor cells.

References

Nishida Y, et al. *Blood Cancer J.* 2017 Feb 17;7(2):e527.

