

Data Sheet

WWW.PROBECHEM.COM

Global Supplier of Chemical Probes, Inhibitors & Agonists.

 Product Name
 :
 AR-42

 Cat. No.
 :
 PC-60407

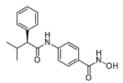
 CAS No.
 :
 935881-37-1

 Molecular Formula
 :
 C₁₈H₂₀N₂O₃

 Molecular Weight
 :
 312.36

 Target
 :
 HDAC

Solubility : 10 mM in DMSO



Biological Activity

AR-42 (HDAC-42, OSU-HDAC42, NSC-D736012) is a potent **pan-HDAC** inhibitor with IC50 of 16-30 nM, inhibits cell proliferation of P815, C2, and BR cells with IC50 of 0.65, 0.30, and 0.23 uM, respectively.

AR-42 promotes hyperacetylation of H3, H4, and α -tubulin, and up-regulation of p21, also down-regulates the expression of p-Akt, total Akt, pSTAT3/5, and total STAT3/5.

AR-42 increases response to decitabine treatment via upregulation of miR-29b.

AR-42 prolongs survival in an ATL NOD/SCID mouse model.

References

Lin TY, et al. *Blood*. 2010 May 27;115(21):4217-25.

Sargeant AM, et al. *Cancer Res.* 2008 May 15;68(10):3999-4009.

Mims A, et al. *Leukemia*. 2013 Apr;27(4):871-8.

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

E-mail: tech@probechem.com