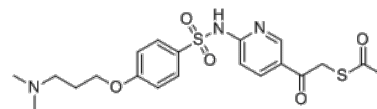


Product Name : KD5170
Cat. No. : PC-21042
CAS No. : 940943-37-3
Molecular Formula : C₂₀H₂₅N₃O₅S₂
Molecular Weight : 451.56
Target : HDAC
Solubility : 10 mM in DMSO



CAS: 940943-37-3

Biological Activity

KD5170 (KD-5170) is a potent mercaptoketone-based Class I and II-histone deacetylase (HDAC) inhibitor with IC₅₀ of 45 nM in HeLa cell-based histone H3 hyperacetylation assay.

KD5170 displays cytotoxic activities of KD5170 against cell lines from the NCI-60 panel with micromolar to submicromolar potency.

KD5170 (30 mg/kg oral dose) increases tumor H3 hyperacetylation in vivo.

KD5170 (42 and 84 mg/kg) exhibits significant tumor growth inhibition in HCT-116 tumor bearing nude mice.

References

Payne JE, et al. Bioorg Med Chem Lett. 2008 Dec 1;18(23):6093-6.

Feng R, et al. Mol Cancer Ther. 2008 Jun;7(6):1494-505.

Hassig CA, et al. Mol Cancer Ther. 2008 May;7(5):1054-65.

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

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