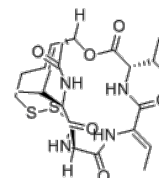


Product Name : Romidepsin
Cat. No. : PC-20784
CAS No. : 128517-07-7
Molecular Formula : C₂₄H₃₆N₄O₆S₂
Molecular Weight : 540.69
Target : HDAC
Solubility : 10 mM in DMSO



Biological Activity

Romidepsin (FK228, NSC 63017, R 901228, Depsipeptide) is a natural product from *Chromobacterium violaceum* as **class I HDACs** inhibitor, inhibits HDAC1, HDAC2, HDAC4, and HDAC6 with IC₅₀s of 36 nM, 47 nM, 510 nM and 1400 nM, respectively.

Romidepsin (FK228) has demonstrated potent in vitro and in vivo cytotoxic activity against murine and human tumor cell lines.

Romidepsin (FK228) strongly inhibited the growth of U-937 cells with IC₅₀ of 5.92 nM.

Romidepsin (FK228) prolonged the survival time of scid mice in a lymphoma model.

Romidepsin (FK228) showed beneficial effects of FK228 on human lymphoma may be exerted through the induction of apoptosis, cell cycle arrest, and differentiation via the modulation of gene expression by histone acetylation.

References

- Ueda H, et al. *J Antibiot (Tokyo)*. 1994 Mar;47(3):301-10.
Furumai R, et al. *Cancer Res*. 2002 Sep 1;62(17):4916-21.
Piekarz RL, et al. *Blood*. 2001 Nov 1;98(9):2865-8.
Sasakawa Y, et al. *Biochem Pharmacol*. 2002 Oct 1;64(7):1079-90.

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

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