

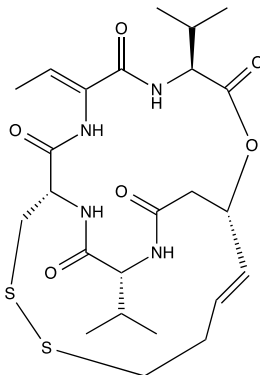
**Catalog # 10-2365**

**Romidepsin**

128517-07-7

FK228, FR901228, Depsipeptide

Lot # X106426



A potent and selective inhibitor of class I histone deacetylases (HDACs),  $IC_{50} = 36, 47, 510$  and  $14,000$  nM for HDAC1, 2, 4 and HDAC6, respectively.<sup>1</sup> Induces apoptosis in a variety of cell lines<sup>2</sup> and displays antitumor activity in mouse models<sup>3</sup>. Recently approved for clinical use in T-cell lymphoma.<sup>4</sup>

- 1) Furumai *et al.* (2002), *FK228 (depsipeptide) as a natural prodrug that inhibits class I histone deacetylases*; *Cancer Res.*, **62** 4916
- 2) Panicker *et al.* (2010), *Romidepsin (FK228/depsipeptide) controls growth and induces apoptosis in neuroblastoma tumor cells*; *Cell Cycle*, **9** 1830
- 3) Ueda *et al.* (1994), *FR901228, a novel anti-tumor bicyclic depsipeptide produced by Chromobacterium violaceum No. 968. III. Antitumor activities on experimental tumors in mice*; *J. Antibiot. (Tokyo)*, **47** 315
- 4) VanderMolin *et al.* (2011), *Romidepsin (Istodax, NSC 630176, FR901228, FK228, depsipeptide): a natural product recently approved for cutaneous T-cell lymphoma*; *J. Antibiotic. (Tokyo)*, **64** 525

**PHYSICAL DATA**

Molecular Weight:	540.71
Molecular Formula:	$C_{24}H_{36}N_4O_6S_2$
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 10 mg/ml)
Physical Description:	Colorless waxy solid – vials may appear empty
Storage and Stability:	Store as supplied desiccated at $-20^{\circ}C$ for up to 2 years from the date of purchase. Solutions in DMSO may be stored at $-20^{\circ}C$ for up to 1 month.

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