



Romidepsin (FK-228)

Data Sheet

Catalog Number: MC11081

Product Type: Small Molecule

Bio-Activity: HDAC inhibitor

CAS #: 128517-07-7

Research Categories: Epigenetics, cell death, cancer

Solubility: Soluble in DMSO (up to 10 mg/ml).

Molecular Formula: C₂₄H₃₆N₄O₆S₂

Purity: > 98%

Molecular Weight: 540.7

Format: Powder

Ship Temp: Ambient

Storage: -20°C

Application Notes

Description/Data:

A potent and selective inhibitor of class I histone deacetylases (HDACs), IC₅₀ = 36, 47, 510 and 14,000 nM for HDAC1, 2, 4 and HDAC6, respectively [1]. Induces apoptosis in a variety of cell lines [2] and displays antitumor activity in mouse models [3]. Recently approved for clinical use in T-cell lymphoma [4].

References:

- 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

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