NEUROMICS

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), Romodepsin (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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