

Tubacin

Cat. No. CEI-0515

Lot. No. (See product label)

Introduction

Description

Tubacin (Tubulin acetylation inducer) is a highly potent, selective, reversible, and cell-permeable inhibitor of histone deacetylase 6 (HDAC6, IC₅₀ = 4 nM). Displays 1000-fold more selectivity for HDAC6 over other HDACs. It inhibits α -tubulin deacetylation in mammalian cells. Unlike trichostatin A (TSA), which is a broad spectrum HDAC inhibitor, tubacin is specific for the tubulin deacetylase activity of HDAC6. Tubacin causes increased acetylation of α -tubulin, accumulation of polyubiquitinated proteins, and apoptosis. It does not affect global histone deacetylation, gene-expression profiling, or cell cycle progression mediated α -tubulin deacetylation in mammalian cells.

Product Information

Appearance	White to off-white solid
CAS No.	537049-40-4
Molecular Formula	C ₄₁ H ₄₃ N ₃ O ₇ S
Chemical Name	N-[4-[(2R,4R,6S)-4-[[4,5-Diphenyl-2-oxazolyl]thio]methyl]-6-[4-(hydroxymethyl)phenyl]-1,3-dioxan-2-yl]phenyl]-N'-hydroxyoctanediamide
Molecular Weight	352.86
Purity	>98% by NMR
Targets	HDAC6
Solubility	DMSO or EtOH

Storage and Shipping Information

Storage	-20 centigrade
Shipping Conditions	Gel pack