

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 C₄₁H₄₃N₃O₇S

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