

## 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, IC<sub>50</sub> = 4 nM). Displays 1000-fold more selectivity for HDAC6 over other HDACs. It inhibits  $\alpha$ -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  $\alpha$ -tubulin, accumulation of polyubiquitinated proteins, and apoptosis. It does not affect global histone deacetylation, gene-expression profiling, or cell cycle progression mediated  $\alpha$ -tubulin deacetylation in mammalian cells.

### Product Information

**Appearance** White to off-white solid

**CAS No.** 537049-40-4

**Molecular Formula** C<sub>41</sub>H<sub>43</sub>N<sub>3</sub>O<sub>7</sub>S

**Chemical Name** N-[4-[(2R,4R,6S)-4-[[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