

Product Information

HDAC inhibitor Tubacin, Purity ≥98%

Cat. No.: X23-10-ZQ344

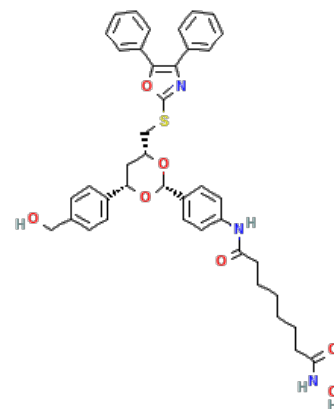
Size: 5 mg; 10 mg; 25 mg; 50 mg; 100 mg

CAS Number: 537049-40-4

Compound CID: 6675804

Synonym: 537049-40-4; 1350555-93-9; Tubacin; *N*1-(4-((2*R*,4*R*,6*S*)-4-(((4,5-Diphenyloxazol-2-yl)thio)methyl)-6-(4-(hydroxymethyl)phenyl)-1,3-dioxan-2-yl)phenyl)-*N*8-hydroxyoctanediamide; HDAC inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Tubacin, soluble in DMSO and insoluble in ethanol and water, induces DNA damage and the inhibition of DNA repair processes. It targets HDAC6.
Molecular Weight	721.9
Molecular Formula	C ₄₁ H ₄₃ N ₃ O ₇ S
Targets	HDAC6: 4 nM
IUPAC Name	<i>N</i> -[4-[(2 <i>R</i> ,4 <i>R</i> ,6 <i>S</i>)-4-[(4,5-Diphenyl-1,3-oxazol-2-yl)sulfanylmethyl]-6-[4-(hydroxymethyl)phenyl]-1,3-dioxan-2-yl]phenyl]- <i>N</i> '-hydroxyoctanediamide
InChI	InChI=1S/C41H43N3O7S/c45-26-28-17-19-29(20-18-28)35-25-34(27-52-41-43-38(30-11-5-3-6-12-30)39(51-41)31-13-7-4-8-14-31)49-40(50-35)32-21-23-33(24-22-32)42-36(46)15-9-1-2-10-16-37(47)44-48/h3-8,11-14,17-24,34-35,40,45,48H,1-2,9-10,15-16,25-27H2,(H,42,46)(H,44,47)/t34-,35+,40+/m1/s1
InChI Key	BHUZLJOUHMBZQY-YXQOSMAKSA-N
Canonical SMILES	C1C(OC(OC1C2=CC=C(C=C2)CO)C3=CC=C(C=C3)NC(=O)CCCCC(=O)NO)CSC4=NC(=C(O4)C5=CC=CC=C5)C6=CC=CC=C6
Isomeric SMILES	C1[C@@H](O[C@@H](O[C@@H]1C2=CC=C(C=C2)CO)C3=CC=C(C=C3)NC(=O)CCCCC(=O)NO)CSC4=NC(=C(O4)C5=CC=CC=C5)C6=CC=CC=C6
Form	Lyophilized powder
Purity	≥98%
Solubility	DMSO: 93 mg/mL (128.83 mM); Water: Insoluble; Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.



Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	Tubacin can be utilized to study the specific inhibition of HDAC6 and its role in neurodegenerative diseases, cancer, and tubulin acetylation.
Storage	Store at -20°C.
