

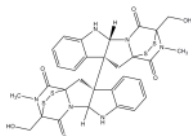
PRODUCT: Chaetocin

ALTERNATE NAME: (3*S*,3'*S*,5*aR*,5*aR*,10*bR*,10'*bR*,11*aS*,11'*aS*)-2,2',3,3',5*a*,5'*a*,6,6'-octahydro-3,3'-bis(hydroxymethyl)-2,2'-dimethyl-[10*b*,10'*b*(11*H*,11'*H*)-bi3,11*a*-epidithio-11*aH*-pyrazino[1',2':1,5]pyrrolo[2,3-*b*]indole]-1,1',4,4'-tetrone

CATALOG #: 2283-500

AMOUNT: 500 µg

STRUCTURE:



MOLECULAR FORMULA: C₃₀H₂₈N₆O₆S₄

MOLECULAR WEIGHT: 696.84

CAS NUMBER: 28097-03-2

APPEARANCE: Off-white solid

SOLUBILITY: DMSO (~7 mg/ml)

PURITY: ≥95%

STORAGE: At -20°C. Protect from light and moisture

DESCRIPTION: A fungal mycotoxin that inhibits the histone lysine methyltransferase (HKMT) SU(VAR)3-9 (IC₅₀ = 0.8 µM). Inhibits other Lys9-specific HMTs, including G9a (IC₅₀ = 2.5 µM) and DIM5 (IC₅₀ = 3 µM). Selectivity for Lys9-HMTs is indicated by higher IC₅₀ values (>90 µM) for Lys20-specific PRSET7, Lys27-specific EZH2, and Lys4-specific SET7/9.

REFERENCE: Greiner, D., *et al.* (2005). *Nat. Chem. Biol.* 1, 143-145.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

AMI-1 (Cat. No. 1943-5, 25)
Aza-2'-deoxycytidine (Cat. No. 1754-10, 50)
5- BIX01294 (Cat. No. 1678-5, 25)
Bromodomain Inhibitor, (+)-JQ1 (Cat. No. 2070-1, 5)
EZSolution™ (+)-JQ1 (Cat. No. 2091-1)
3-Deazaneplanocin (Cat. No. 2060-250, 1000)
GSK343 (Cat. No. 2281-1, 5)
GSK126 (Cat. No. 2282-1, 5)
Lomeguatrib (Cat. No. 2224-5, 25)
RG108 (Cat. No. 1679-10, 30)
UNC0638 (Cat. No. 1933-1,
Zebularine (Cat. No. 2225-1, 5)

USAGE: **FOR RESEARCH CH USE ONLY! Not to be used in humans**