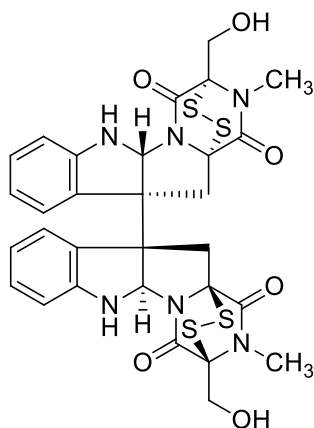


Chaetocin

Code No.: **BIA-C1146**

Pack sizes: **1 mg, 5 mg**



Synonyms : Chetocin

Specifications

CAS #	: 28097-03-2
Molecular Formula	: C₃₀H₂₈N₆O₆S₄
Molecular Weight	: 696.9
Source	: <i>Chaetomium</i> sp.
Appearance	: White to off-white solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in 50% chloroform in methanol.

Application Notes

Chaetocin is an epithiodioxopiperazine antibiotic that has recently shown promise as a selective antitumor agent. Chaetocin is an inhibitor of lysine-specific methyltransferase SU(VAR)3-9 both in vitro and in vivo. Chaetocin is dramatically accumulated in cancer cells via a process inhibited by glutathione. Inside the cell, its activity is mediated by the imposition of oxidative stress.

References

1. Isolation and configuration of Chaetocin. Hauser, D. et al., *Helv. Chim. Acta* 1970, 53, 1061.
2. Identification of a specific inhibitor of the histone methyltransferase SU(VAR)3-9. Greiner D. et al., *Nature Chem. Biol.* 2005, 1, 143.
3. Chaetocin, a promising new anti-myeloma agent with in vitro and in vivo activity mediated via imposition of oxidative stress. Isham C.R. et al., *Blood* 2007, 109, 2579.