

Product Name:	Chaetocin
Product Number:	C166
CAS Number:	28097-03-2
Molecular Formula:	$C_{30}H_{28}N_6O_6S_4$
Molecular Weight:	696.9
Appearance:	White to off-white solid
Storage Conditions:	-20°C
Description:	<p>Chaetocin is an epithiodioxopiperazine antibiotic that has recently shown promise as a selective antitumor agent. 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.</p> <p>Chaetocin is soluble in ethanol, methanol, DMF and DMSO.</p>
Mechanism of Action:	<p>Chaetocin is an inhibitor of lysine-specific methyltransferase SU(VAR)3-9 both in vitro and in vivo.</p>
References:	<p>Isolation and configuration of Chaetocin. Hauser, D. et al. <i>Helv. Chim. Acta</i> 1970, 53, 1061.</p> <p>Identification of a specific inhibitor of the histone methyltransferase SU(VAR)3-9. Greiner D. et al. <i>Nature Chem. Biol.</i> 2005, 1, 143.</p> <p>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. <i>Blood</i> 2007, 109, 2579.</p>