

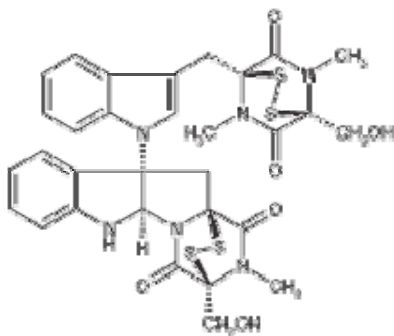


COSMO BIO CO., LTD.

PRODUCT DATA SHEET

Product: Chetomin

Cat. No.: BC-255 (1 mg)



MW: 710.9

Formula:

$C_{31}H_{30}N_6O_6S_4$

Origin:

Isolated from *Chaetomium* species.

Format:

Lyophilized powder. Off-white to fawn solid.
Purity $\geq 98\%$ by HPLC.

Solubility:

Soluble in DMSO, ethyl acetate or pyridine; fairly soluble in methanol, 100% ethanol; insoluble in water.

Specific Activity:

Antibacterial agent. Cytotoxic. Dithiodiketopiperazine inhibitor of HIF-1 formation by disrupting the binding of p300 to both HIF-1 α and HIF-2 α . Inhibitor of tumor growth. Potent immunosuppressor (Con A-induced ($IC_{50} = 0.17 \mu\text{g/ml}$) and LPS-induced ($IC_{50} = 0.09 \mu\text{g/ml}$) proliferation of mouse splenic lymphocytes).

Hazard:

Cytotoxic

Storage and Stability:

Store at 4°C long term.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.



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