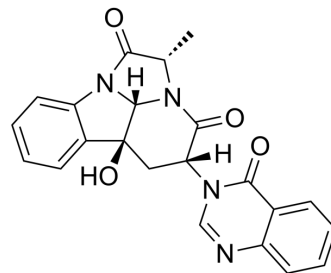


Chaetominine

Cat. No.:	HY-125136
CAS No.:	918659-56-0
Molecular Formula:	C ₂₂ H ₁₈ N ₄ O ₄
Molecular Weight:	402.4
Target:	PI3K; Akt; Keap1-Nrf2
Pathway:	PI3K/Akt/mTOR; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Chaetominine is an alkaloidal metabolite. Chaetominine has cytotoxicity against human leukemia K562 and colon cancer SW1116 cell lines. Chaetominine reduces MRP1-mediated agent resistance via inhibiting PI3K/Akt/Nrf2 signaling pathway in K562/Adr human leukemia cells ^{[1][2]} .
IC ₅₀ & Target	PI3K, Akt, Nrf2 ^[2]

REFERENCES

- [1]. Jiao RH, et al. Chaetominine, a cytotoxic alkaloid produced by endophytic Chaetomium sp. IFB-E015. Org Lett.
- [2]. Yao J, et al. Chaetominine reduces MRP1-mediated drug resistance via inhibiting PI3K/Akt/Nrf2 signaling pathway in K562/Adr human leukemia cells. Biochem Biophys Res Commun. 2016;473(4):867-873.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA