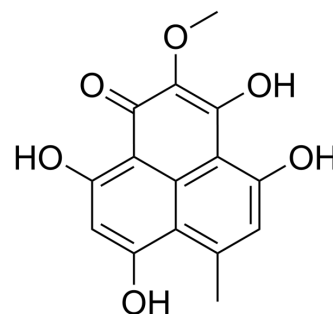


Funalenone

Cat. No.:	HY-121096
CAS No.:	259728-61-5
Molecular Formula:	C ₁₅ H ₁₂ O ₆
Molecular Weight:	288.25
Target:	MMP; HIV Integrase; Bacterial
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Funalenone (BMS-304245) is a <i>MraY</i> + <i>MurG</i> inhibitor with an IC ₅₀ of 25.5 μM in a <i>MraY</i> + <i>MurG</i> membrane plate assay. Funalenone inhibits <i>Staphylococcus aureus</i> (A15090) with an MIC of 64 μg/mL. Funalenone also inhibits MMP-1 with an IC ₅₀ of 170 μM ^{[1][2]} .	
IC₅₀ & Target	collagenases 1	HIV Integrase 10 μM (IC ₅₀)

REFERENCES

- [1]. J Inokoshi, et al. Funalenone, a novel collagenase inhibitor produced by *Aspergillus niger*. *J Antibiot (Tokyo)*. 1999 Dec;52(12):1095-100.
- [2]. Kazuro Shiomi, et al. Fungal phenalenones inhibit HIV-1 integrase. *J Antibiot (Tokyo)*. 2005 Jan;58(1):65-8.
- [3]. Zawadzke LE, et al. Targeting the *MraY* and *MurG* bacterial enzymes for antimicrobial therapeutic intervention. *Anal Biochem*. 2003 Mar 15;314(2):243-52.
- [4]. Inokoshi J, et al. Funalenone, a novel collagenase inhibitor produced by *Aspergillus niger*. *J Antibiot (Tokyo)*. 1999 Dec;52(12):1095-100.

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

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