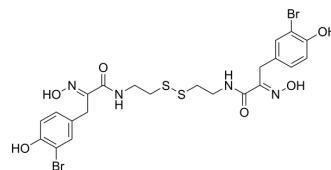


Psammaplin A

Cat. No.:	HY-N2150
CAS No.:	110659-91-1
Molecular Formula:	C ₂₂ H ₂₄ Br ₂ N ₄ O ₆ S ₂
Molecular Weight:	664.39
Target:	HDAC; DNA Methyltransferase; DNA/RNA Synthesis; Bacterial
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Anti-infection
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



BIOLOGICAL ACTIVITY

Description	Psammaplin A, a marine metabolite, is a potent inhibitor of HDAC and DNA methyltransferases. Psammaplin A is a highly potent and selective DAC1 inhibitor with an IC ₅₀ of 0.9 nM. Psammaplin A possesses the antimicrobial effect on the Gram-positive bacteria and inhibits DNA synthesis and DNA gyrase activity. Antitumor Activity ^{[1][2]} .
IC₅₀ & Target	IC ₅₀ : 0.9 nM (DAC1) ^[1]

REFERENCES

[1]. Matthias G J Baud, et al. Defining the Mechanism of Action and Enzymatic Selectivity of Psammaplin A Against Its Epigenetic Targets. *J Med Chem.* 2012 Feb 23;55(4):1731-50.

[2]. Psammaplin A, a Natural Bromotyrosine Derivative From a Sponge, Possesses the

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