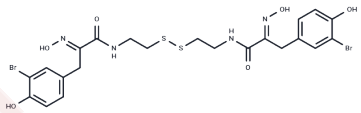
Data Sheet (Cat.No.T36303)

TargetMol

Psammaplin A

Chemical Properties



CAS No. : 110659-91-1

Formula: C22H24Br2N4O6S2

Molecular Weight: 664.38

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Psammaplin A, a marine metabolite, functions as a robust inhibitor of HDAC and DNA methyltransferases, displaying notable potency and selectivity as a DAC1 inhibitor, with an IC50 value of 0.9 nM. It exhibits antimicrobial effects against Gram-positive bacteria and inhibits DNA synthesis and DNA gyrase activity, demonstrating antitumor activity [1] [2].
Targets(IC50)	Others,Antibacterial,HDAC,DNA Methyltransferase,DNA/RNA Synthesis

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5052 mL	7.5258 mL	15.0516 mL
5 mM	0.301 mL	1.5052 mL	3.0103 mL
10 mM	0.1505 mL	0.7526 mL	1.5052 mL
50 mM	0.0301 mL	0.1505 mL	0.301 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

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