Data Sheet (Cat.No.T2188)



Thonzonium Bromide

Chemical Properties

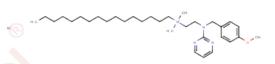
CAS No.: 553-08-2

Formula: C32H55BrN4O

Molecular Weight: 591.71

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Thonzonium bromide is a mono-cationic surfactant that is structurally similar to Farnesol as an antimicrobial agent. It inhibits proton transport in a dose-dependent manner (EC50=69 μ M). It inhibits RANKL-induced osteoclast formation and bone resorption in vitro and prevents LPS-induced bone loss in vivo.
Targets(IC50)	Proton pump,Antibacterial,Autophagy

Solubility Information

Solubility	DMSO: 5.92 mg/mL (10 mM), sonification is recommended. color: blue; 1 mg/ml refers to
	the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.690 mL	8.4501 mL	16.9002 mL
5 mM	0.338 mL	1.690 mL	3.380 mL
10 mM	0.169 mL	0.845 mL	1.690 mL
50 mM	0.0338 mL	0.169 mL	0.338 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.

Reference

Chan, C., Prudom, C., Raines, S., Charkhzarrin, S., Melman, S., & De Haro, L. et al. (2012). Inhibitors of V-ATPase Proton Transport Reveal Uncoupling Functions of Tether Linking Cytosolic and Membrane Domains of V 0 Subunit a

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481

Page 1 of 1 www.targetmol.com