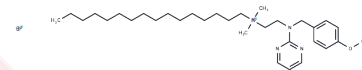


Thonzonium Bromide

Chemical Properties

CAS No. :	553-08-2
Formula:	C ₃₂ H ₅₅ BrN ₄ O
Molecular Weight:	591.71
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	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 (EC ₅₀ =69 μM). 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: 260 mg/mL (439.4 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

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

Chan, C., Prudom, C., Raines, S., Charkzarrin, 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 (Vph1p). Journal Of Biological Chemistry, 287(13), 10236-10250. doi: 10.1074/jbc.m111.321133

Chafetz, L., Greenough, R., & Frank, J. (1986). Pharmaceutical Research, 03(5), 298-301. doi: 10.1023/a:12016367503669

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