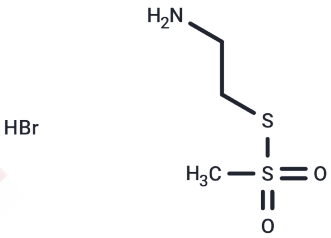
Data Sheet (Cat.No.T19437)

TargetMol

MTSEA hydrobromide

Chemical Properties



CAS No. : 16599-33-0

Formula: C3H10BrNO2S2

Molecular Weight: 236.15

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	MTSEA hydrobromide is a sulfhydryl-reactive compound that modifies free cysteine residues, producing a positively charged side chain similar in size to lysine.
Targets(IC50)	Others
In vitro	Activation by Cd is occluded by modification with 2-aminoethyl MTS (MTSEA), indicating that Cd binds directly and specifically to the substituted cysteines.?Cd potency for the A657C mutation (EC50 = 10 M) suggests that binding involves at least two coordinating residues, whereas weaker Cd potency for L659C (EC50 = 2 mM) implies that activation does not require tight coordination by multiple side chains for this substitution.Cys modification by MTSEA reduces susceptibility to Cd activation of receptors with A8C or L10C substitutions[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2346 mL	21.173 mL	42.346 mL
5 mM	0.8469 mL	4.2346 mL	8.4692 mL
10 mM	0.4235 mL	2.1173 mL	4.2346 mL
50 mM	0.0847 mL	0.4235 mL	0.8469 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

Wilding TJ, et al. Cadmium opens GluK2 kainate receptors with cysteine substitutions at the M3 helix bundle crossing. J Gen Physiol. 2019 Apr 1;151(4):435-451.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481