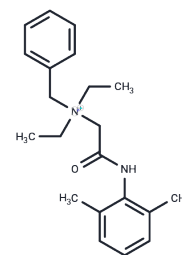
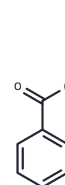


Denatonium benzoate

Chemical Properties

CAS No. :	3734-33-6
Formula:	C ₂₈ H ₃₄ N ₂ O ₃
Molecular Weight:	446.58
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	Denatonium benzoate (THS-839) , a quaternary ammonium cation, is a compound of a salt with an inert anion like saccharide or benzoate. Its structure is involved in the local anesthetic lidocaine which difference only is the addition of a benzyl group to the amino nitrogen.
Targets(IC50)	Others,Taste receptor

Solubility Information

Solubility	DMSO: 27.5 mg/mL (61.58 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.48 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2392 mL	11.1962 mL	22.3924 mL
5 mM	0.4478 mL	2.2392 mL	4.4785 mL
10 mM	0.2239 mL	1.1196 mL	2.2392 mL
50 mM	0.0448 mL	0.2239 mL	0.4478 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

Meyerhof W, et al. Chem Senses. 2010 Feb;35(2):157-70.

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