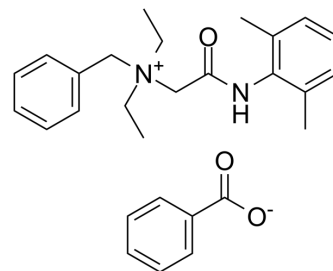


Denatonium benzoate

Cat. No.: HY-B1146
CAS No.: 3734-33-6
Molecular Formula: $C_{28}H_{34}N_2O_3$
Molecular Weight: 446.58
Target: Others
Pathway: Others
Storage: 4°C, sealed storage, away from moisture
 * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 20 mg/mL (44.78 mM; Need ultrasonic) DMSO : 20 mg/mL (44.78 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div>Solvent Concentration</div>	Mass	1 mg	5 mg	10 mg
		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
		Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: PBS Solubility: 33.33 mg/mL (74.63 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2 mg/mL (4.48 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Denatonium benzoate (THS-839) is the most bitter chemical compound known, used as aversive agents (bitterants) to prevent inappropriate ingestion. Denatonium benzoate (THS-839) is used in denatured alcohol, antifreeze, nail biting preventions, respirator mask fit-testing, animal repellents, liquid soaps, and shampoos.
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Caution: Product has not been fully validated for medical applications. For research use only.

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