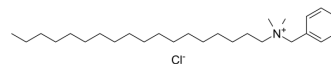


## Benzyltrimethylstearylammonium chloride

<b>Cat. No.:</b>	HY-128443
<b>CAS No.:</b>	122-19-0
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>50</sub> ClN
<b>Molecular Weight:</b>	424.15
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 125 mg/mL (294.71 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.3577 mL</td> <td>11.7883 mL</td> <td>23.5766 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4715 mL</td> <td>2.3577 mL</td> <td>4.7153 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2358 mL</td> <td>1.1788 mL</td> <td>2.3577 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.3577 mL	11.7883 mL	23.5766 mL	5 mM	0.4715 mL	2.3577 mL	4.7153 mL	10 mM	0.2358 mL	1.1788 mL	2.3577 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.08 mg/mL (4.90 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.90 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (4.90 mM); Clear solution</li> </ol>																					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Benzyltrimethylstearylammonium chloride, a quaternary ammonium compound, exerts no selective embryopathic activity [1].
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### REFERENCES

[1]. A K Palmer, et al. Absence of embryotoxic effects in rats with three quaternary ammonium compounds (cationic surfactants). Toxicology. Mar-Apr 1983;26(3-4):313-5.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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