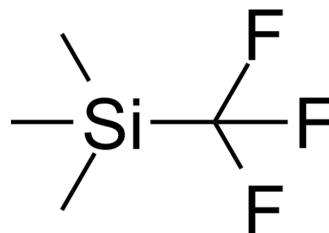


(Trifluoromethyl)trimethylsilane

Cat. No.:	HY-Y0147
CAS No.:	81290-20-2
Molecular Formula:	C ₄ H ₉ F ₃ Si
Molecular Weight:	142.19
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	<div>Pure form -20°C 3 years</div> <div>In solvent -80°C 6 months</div> <div> -20°C 1 month</div>



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (703.28 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		7.0328 mL	35.1642 mL	70.3284 mL
		5 mM		1.4066 mL	7.0328 mL	14.0657 mL
		10 mM		0.7033 mL	3.5164 mL	7.0328 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (17.58 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (17.58 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 2.5 mg/mL (17.58 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Trimethylsilyl(trifluoromethyl)silane is a biochemical reagent that can be used as a biological material or organic compound for life science related research.
In Vitro	<p>(Trifluoromethyl)trimethylsilane is employed as a valuable reagent for trifluoromethylation of electrophilic substrates. It is also use an the nucleophilic addition of the trifluoromethyl group to aldehydes and ketones. It generates trifluoromethyl with catalytic amounts of F-(TBAF or CsF) and reacts with carbonyl compounds to produce trifluoromethylated alcohols. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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

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