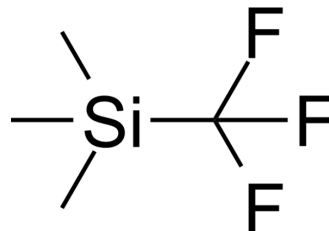


(Trifluoromethyl)trimethylsilane

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:	Pure form	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (703.28 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

- 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
- 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
- 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

(Trifluoromethyl)trimethylsilane is employed as a valuable reagent for trifluoromethylation of electrophilic substrates. It is also used in 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.

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

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