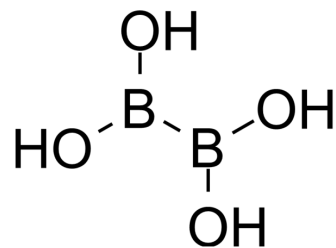


Tetrahydroxydiboron

Cat. No.:	HY-W004761		
CAS No.:	13675-18-8		
Molecular Formula:	B ₂ H ₄ O ₄		
Molecular Weight:	89.65		
Target:	Biochemical Assay Reagents		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (1115.45 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	11.1545 mL	55.7724 mL	111.5449 mL
	5 mM	2.2309 mL	11.1545 mL	22.3090 mL
	10 mM	1.1154 mL	5.5772 mL	11.1545 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 (27.89 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (27.89 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (27.89 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tetrahydroxydiboron can be used to optimize the Miyaura borylation process, replacing bis(pinacolato) diboron by hydrolyzing the resulting boronic ester to its corresponding acid^[1].

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

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