MES monohydrate

Cat. No.:	HY-D0858A	
CAS No.:	145224-94-8	0^{\frown}
Molecular Formula:	C ₆ H ₁₅ NO ₅ S	Ŭ I O
Molecular Weight:	213.25	
Target:	Biochemical Assay Reagents	ο΄ OH
Pathway:	Others	.0、
Storage:	4°C, sealed storage, away from moisture	H´``H
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	4.6893 mL	23.4467 mL	46.8933 mL	
		5 mM	0.9379 mL	4.6893 mL	9.3787 mL	
		10 mM	0.4689 mL	2.3447 mL	4.6893 mL	
	Please refer to the so	ubility information to select the app	propriate solvent.			
ı Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.43 mg/mL (6.71 mM); Clear solution				
		one by one: 10% DMSO >> 90% (20 ng/mL (6.71 mM); Clear solution	% SBE-β-CD in saline)			

BIOLOGICAL ACTIVITY					
Description	MES (2-Morpholinoethanesulphonic acid) monohydrate is a buffering agent in biology and biochemistry. MES monohydrate is one of the Good's buffers, the buffer capacity ranging pH 5.5-7.0. MES monohydrate is broadly used to regulate pH value for plants culture medium, reagent solution, and physiological experiments ^{[1][2]} .				

REFERENCES

[1]. N E Good, et al. Hydrogen ion buffers for biological research. Biochemistry. 1966 Feb;5(2):467-77.

[2]. Tomoko Kagenishi, et al. MES Buffer Affects Arabidopsis Root Apex Zonation and Root Growth by Suppressing Superoxide Generation in Root Apex. Front Plant Sci. 2016 Feb 18;7:79.



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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA