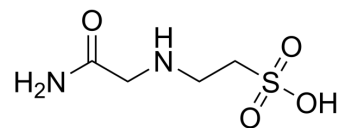


## ACES

<b>Cat. No.:</b>	HY-D0866		
<b>CAS No.:</b>	7365-82-4		
<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>10</sub> N <sub>2</sub> O <sub>4</sub> S		
<b>Molecular Weight:</b>	182.2		
<b>Target:</b>	Biochemical Assay Reagents		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



## SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 41.67 mg/mL (228.70 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	1 mM	5.4885 mL	27.4424 mL	54.8847 mL
	5 mM	1.0977 mL	5.4885 mL	10.9769 mL
	10 mM	0.5488 mL	2.7442 mL	5.4885 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	1. Add each solvent one by one: PBS Solubility: 16.67 mg/mL (91.49 mM); Clear solution; Need ultrasonic			

## BIOLOGICAL ACTIVITY

<b>Description</b>	ACES (N-(2-Acetamido)-2-aminoethanesulfonic acid) is a zwitterionic buffer. The working pH range of ACES buffer is 6.8-7.2 [1][2].
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## REFERENCES

[1]. Melissa D Mertzman, et al. Effect of surfactant concentration and buffer selection on chromatographic figures of merit in chiral microemulsion electrokinetic chromatography. *Electrophoresis*. 2004 Oct;25(18-19):3247-56.

[2]. Rabindra N Roy, et al. Buffer Standards for the Physiological pH of the Zwitterionic Compound, ACES from 5 to 55°C. *J Solution Chem*. 2009 Apr 1;38(4):471-483.

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

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