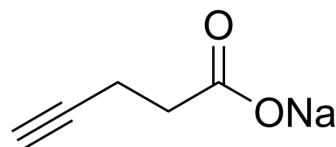


Sodium 4-pentynoate

Cat. No.:	HY-15286
CAS No.:	101917-30-0
Molecular Formula:	C ₅ H ₅ NaO ₂
Molecular Weight:	120.08
Target:	Others
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (832.78 mM; Need ultrasonic)					
	DMSO : 16.67 mg/mL (138.82 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		8.3278 mL	41.6389 mL	83.2778 mL
5 mM			1.6656 mL	8.3278 mL	16.6556 mL	
10 mM		0.8328 mL	4.1639 mL	8.3278 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 150 mg/mL (1249.17 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.67 mg/mL (13.91 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.67 mg/mL (13.91 mM); Clear solution					
	4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (13.91 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Sodium 4-pentynoate is a alkynylacetate analogue, can be metabolically incorporated onto cellular proteins through biosynthetic mechanisms for profiling of acetylated proteins in diverse cell types ^[1] . Sodium 4-pentynoate is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
In Vitro	Sodium 4-pentynoate (0.01-10 mM; 0.5-8 h) is used to dose- and time-dependent metabolic labeling in Jurkat T cells ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yang YY, et al. Bioorthogonal chemical reporters for monitoring protein acetylation. J Am Chem Soc. 2010 Mar 24;132(11):3640-1.

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

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