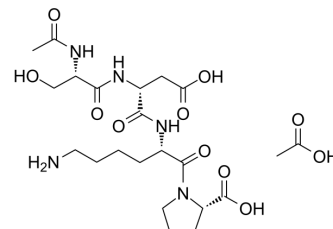


N-Acetyl-Ser-Asp-Lys-Pro acetate

Cat. No.: HY-P0266B
Molecular Formula: C₂₂H₃₇N₅O₁₁
Molecular Weight: 547.56
Target: Angiotensin-converting Enzyme (ACE)
Pathway: Metabolic Enzyme/Protease
Storage: Sealed storage, away from moisture
 Powder -80°C 2 years
 -20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (182.63 mM; Need ultrasonic)				
	Preparing Stock Solutions	<div>Solvent Concentration</div> <div>Mass</div>	1 mg	5 mg	10 mg
		1 mM	1.8263 mL	9.1314 mL	18.2628 mL
		5 mM	0.3653 mL	1.8263 mL	3.6526 mL
		10 mM	0.1826 mL	0.9131 mL	1.8263 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.57 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.57 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.57 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	N-Acetyl-Ser-Asp-Lys-Pro (Ac-SDKP) acetate is a specific substrate for the N-terminal active site of angiotensin-converting enzyme (ACE). N-Acetyl-Ser-Asp-Lys-Pro acetate is a natural inhibitor of pluripotent hematopoietic stem cell proliferation. Anti-inflammatory and antifibrotic properties ^{[1][2]} .
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REFERENCES

[1]. Peng H, et al. Ac-SDKP reverses cardiac fibrosis in rats with renovascular hypertension. Hypertension. 2003;42(6):1164-1170.

[2]. Sharma U, et al. Novel anti-inflammatory mechanisms of N-Acetyl-Ser-Asp-Lys-Pro in hypertension-induced target organ damage. Am J Physiol Heart Circ Physiol. 2008;294(3):H1226-H1232.

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