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产品名称: O-乙酰-L-丝氨酸

产品别名: O-Acetylserine; O-Acetyl-L-serine

生物活性:				
Description	O-Acetylserine (O-Acetyl-L-serine) is an intermediate in the biosynthesis of the amino acid cysteine in bacteria and plants.			
IC ₅₀ & Target	Human Endogenous Metabolite			
In Vitro	O-acetylserine (OAS) is a central metabolite of sulfur assimilation, providing the carbon backbone for synthesis of cysteine. Sulfide generated through sulfate reduction is incorporated into OAS to form cysteine. OAS displays a signalling function leading to changes in transcript levels of a specific gene set irrespective of the sulfur status of the plant[1]. Treatment with external OAS increases sulfate transporter and adenosine 5' -phosphosulfate reductase gene expression consistent with a model of transcriptional induction by OAS[2].			
Solvent&Solubility	In Vitro: H₂O : ≥ 32 mg/mL (217.49 mM) * "≥" means soluble, but saturation unknown.			
	Preparing Stock Solutions	Solvent	Mass	
		Concentration		
			1 mg	5 mg
			10 mg	
		1 mM	6.7967 mL	33.9836 mL
		5 mM	1.3593 mL	6.7967 mL
		10 mM	0.6797 mL	3.3984 mL
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限 -80℃, 6 months; -20℃, 1 month。 -80℃ 储存时, 请在 6 个月内使用, -20℃ 储存时, 请在 1 个月内使用。			
References	[1]. Hubberten HM, et al. Additional role of O-acetylserine as a sulfur status-independent regulator during plant growth. Plant J. 2012 May;70(4):666-77. [2]. Hopkins L, et al. O-acetylserine and the regulation of expression of genes encoding components for sulfate uptake and assimilation in potato. Plant Physiol. 2005 May;138(1):433-40.			