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产品名称: **Sortin1**
产品别名: **Sortin1**

生物活性:					
Description	Sortin1 is a chemical genetic-hit molecule that causes specific mislocalization of plant and yeast-soluble and membrane vacuolar markers. IC50 value: Target: Vacuolar markers in vitro: In Arabidopsis seedlings, application of Sortin1 and -2 led to reversible defects in vacuole biogenesis and root development. Sortin1 was found to redirect the vacuolar destination of plant carboxypeptidase Y and other proteins in Arabidopsis suspension cells and cause these proteins to be secreted. Sortin1 treatment of whole Arabidopsis seedlings also resulted in carboxypeptidase Y secretion, indicating that the drug has a similar mode of action in cells and intact plants [1]. Structure-activity relationship studies conducted in Arabidopsis revealed the structural requirements for Sortin1 bioactivity and demonstrated that overlapping Sortin1 substructures can be used to discriminate between vacuolar-flavonoid accumulations and vacuolar-biogenesis defects [2].				
Solvent&Solubility	<i>In Vitro:</i> DMSO : 100 mg/mL (226.54 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	2.2654 mL	11.3268 mL	22.6536 mL
		5 mM	0.4531 mL	2.2654 mL	4.5307 mL
		10 mM	0.2265 mL	1.1327 mL	2.2654 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]. Zouhar J, et al. Sorting inhibitors (Sortins): Chemical compounds to study vacuolar sorting in Arabidopsis. Proc Natl Acad Sci U S A. 2004 Jun 22;101(25):9497-501. [2]. Rosado A, et al. Sortin1-hypersensitive mutants link vacuolar-trafficking defects and flavonoid metabolism in Arabidopsis vegetative tissues. Chem Biol. 2011 Feb 25;18(2):187-97. [3]. Orr DJ, et al. 1H NMR-based metabolomics methods for chemical genomics experiments. Methods Mol Biol. 2014;1056:225-39.				