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产品名称: 4-羟基-3-甲氧基苯基丙酮酸

产品别名: Vanilpyruvic acid

生物活性:				
Description	Vanilpyruvic acid is a catecholamine metabolite and precursor to vanillic acid.			
In Vitro	The catecholamines, dopamine, norepinephrine, and epinephrine, constitute a class of chemical neurotransmitters and hormones that occupy key positions in the regulation of physiological processes and the development of neurological, psychiatric, endocrine, and cardiovascular diseases[1]. Catecholamines, namely dopamine (3,4-dihydrophenylethylamine), norepinephrine (noradrenaline) and epinephrine (adrenaline), act as neurotransmitters or hormones at central and peripheral levels. In addition to being the most abundant of the monoamine neurotransmitters, dopamine is also found in non-neuronal tissues such as the gastrointestinal tract and the kidney, where it participates in the regulation of sodium balance[2].			
Solvent&Solubility	In Vitro: DMSO : ≥ 27 mg/mL (128.46 mM) <small>* "\geq" means soluble, but saturation unknown.</small>			
	<div>Preparing Stock Solutions</div>	<div>Solvent / Mass / Concentration</div>	1 mg	5 mg
		1 mM	4.7578 mL	23.7891 mL
		5 mM	0.9516 mL	4.7578 mL
		10 mM	0.4758 mL	2.3789 mL
	<small>*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°C, 6 months; -20°C, 1 month。 -80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。</small>			
References	[1]. Eisenhofer G, et al. Catecholamine metabolism: a contemporary view with implications for physiology and medicine. Pharmacol Rev. 2004 Sep;56(3):331-49. [2]. Bicker J, et al. Liquid chromatographic methods for the quantification of catecholamines and their metabolites in several biological samples--a review. Anal Chim Acta. 2013 Mar 20;768:12-34.			