



上海源叶生物科技有限公司
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产品名称: γ -Glutamylphenylalanine
CAS 号: 7432-24-8
产品货号: S86381

生物活性:					
Description	γ -Glu-Phe (γ -Glutamylphenylalanine) 是由解淀粉芽孢杆菌 (GBA) 和米曲霉 (GAO) 合成的。γ -Glu-Phe 或酶后反应混合物可增强商业酱油和模型鸡汤的鲜味强度。				
IC50 & Target	Microbial Metabolite	Human Endogenous Metabolite			
In Vitro	γ -Glu-Phe, γ -Glu-Met and γ -Glu-Val, are identified in sourdough by liquid chromatography-tandem mass spectrometry in MRM mode. γ -Glutamyl dipeptides are found in higher concentrations in sourdough fermented with L. reuteri when compared to the chemically acidified controls. Proteolysis is an important factor for generation of γ -glutamyl dipeptides. Sensory evaluation of bread reveals that sourdough bread with higher concentrations of γ -glutamyl dipeptides ranks higher with respect to the taste intensity when compared to regular bread and type I sourdough bread. Sourdough breads fermented with L. reuteri LTH5448 and L. reuteri 100-23 differ with respect to the intensity of the salty taste; this difference corresponds to a different concentration of γ -glutamyl dipeptides[2]。				
Solvent&Solubility	细胞实验: H2O 中的溶解度 : ≥ 50 mg/mL (169.89 mM) * "≥" means soluble, but saturation unknown)				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	3.3979 mL	16.9895 mL	33.9789 mL
		5 mM	0.6796 mL	3.3979 mL	6.7958 mL
		10 mM	0.3398 mL	1.6989 mL	3.3979 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°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)。-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。 * 备注: 如您选择水作为储备液, 请稀释至工作液后, 再用 0.22 μm 的滤膜过滤除菌后使用。				
参考文献	[1]. Zhao CJ, et al. Synthesis of Taste-Active γ -Glutamyl Dipeptides during Sourdough Fermentation by Lactobacillus reuteri. J Agric Food Chem. 2016 Oct 12;64(40):7561-7568. [2]. Zhao CJ, et al. Synthesis of Taste-Active γ -Glutamyl Dipeptides during Sourdough Fermentation by Lactobacillus reuteri. J Agric Food Chem. 2016 Oct 12;64(40):7561-7568. [3]. Yang J, et al. Synthesis and Sensory Characteristics of Kokumi γ -[Glu]n-Phe in the Presence of Glutamine and Phenylalanine: Glutaminase from Bacillus amyloliquefaciens or Aspergillus oryzae as the Catalyst. J Agric Food Chem. 2017 Oct 4;65(39):8696-8703.				
完整储备液配制表: 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 (sealed storage, away from moisture)。-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。					



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可选溶剂	质量 溶剂体积 浓度	1 mg	5 mg	10 mg	25 mg
	浓度				
H ₂ O	1 mM	3.3979 mL	16.9895 mL	33.9789 mL	84.9473 mL
	5 mM	0.6796 mL	3.3979 mL	6.7958 mL	16.9895 mL
	10 mM	0.3398 mL	1.6989 mL	3.3979 mL	8.4947 mL
	15 mM	0.2265 mL	1.1326 mL	2.2653 mL	5.6632 mL
	20 mM	0.1699 mL	0.8495 mL	1.6989 mL	4.2474 mL
	25 mM	0.1359 mL	0.6796 mL	1.3592 mL	3.3979 mL
	30 mM	0.1133 mL	0.5663 mL	1.1326 mL	2.8316 mL
	40 mM	0.0849 mL	0.4247 mL	0.8495 mL	2.1237 mL
	50 mM	0.0680 mL	0.3398 mL	0.6796 mL	1.6989 mL
	60 mM	0.0566 mL	0.2832 mL	0.5663 mL	1.4158 mL
	80 mM	0.0425 mL	0.2124 mL	0.4247 mL	1.0618 mL
	100 mM	0.0340 mL	0.1699 mL	0.3398 mL	0.8495 mL

备注: 如您选择水作为储备液, 请稀释至工作液后, 再用 0.22 μ m 的滤膜过滤除菌后使用。

源叶