## **ONPG**

货号: B26712



## 产品信息

生物活性	ONPG is a colorimetric and spectrophotometric substrate for detection of $\beta$ -galactosidase activity.				
CAS	369-07-3				
中文名称					
分子量	301.25				
体外研究	The enzyme displays high hydrolysis ability for ONPG (100%) and moderate activity for its nature to lactose (25.7%). However, the hydrolysis ability of the enzyme towards all other chromogenic nyl analogues is very weak, indicating that Gal308 is a $\beta$ -galactosidase with narrow substrate sp. To investigate the kinetic parameters of recombinant enzyme, the Michaelis-Menten constants (over numbers ( $k_{cat}$ ), and catalytic efficiencies ( $k_{cat}$ / $k_m$ ) of Gal308 for ONPG and lactose are dete he $k_{cat}$ and $k_m$ values are 464.7±7.8 s <sup>-1</sup> and 2.7±0.3 mM for ONPG, and 264.2±2.1 s <sup>-1</sup> and 7.1± r lactose, respectively. The $k_{cat}$ / $k_m$ value of the enzyme for ONPG (172.1 s -1mM-1) is 4.6-fold high hat for lactose (37.2 s -1mM-1), which clearly demonstrated that the catalytic efficiency of Gal308 G is much higher than that for lactose.				
	The accuracy of these methods have not been independently confirmed. They are for reference only.				
体内研究					
形式	Solid				
运输条件	Room temperature in continental US; may vary elsewhere.				
保存条件					
溶解性	In Vitro: H <sub>2</sub> O: 8.33 mg/mL (27.65 mM; ultrasonic and warming and heat to 60°C) 配制储备液				
	浓度溶剂体积质量 1 mg 5 mg 10 mg 1 mM 3.3195 mL16.5975 mL33.1950 mL 5 mM 0.6639 mL3.3195 mL 6.6390 mL 10 mM0.3320 mL1.6598 mL 3.3195 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, <b>请分装保存,避免反复冻融造成的产品</b> 失效。 <b>储备液的保存方式和期限:</b> -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。				