

Recombinant human GLO1 protein ab87413

2 References 1 图像

描述	
产品名称	重组人GLO1蛋白
生物活性	<b>Specific activity:</b> >0.4 units/mg (please enquire for specific batch value). One unit will form 1.0 μmol of S-lactoylglutathione from methylglyoxal and reduced glutathione per minute at pH 7.5, at 25°C. Specific activity was expressed in units/mg of protein.
纯度	> 90 % SDS-PAGE. Purified by using conventional chromatography techniques.
表达系统	Escherichia coli
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MAEPQPPSGG LTDEAALSCC SDADPSTKDF LLQQTMLRVK DPKKSLDFYT RVLGMTLIQK CDFPIMKFSL YFLAYEDKND IPKEKDEKIA WALSRKATLE LTHNWGTEDD ETQSYHNGNS DPRGFGHIGI AVPDVYSACK RFEELGVKFV KKPDDGKMKG LAFIQDPDGY WIEILNPNKM ATLM

技术指标	
Our <b>Abpromise guarantee</b> covers the use of <b>ab87413</b> in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
应用	SDS-PAGE Functional Studies
形式	Liquid
补充说明	<b>Activity Assay</b> <b>Final assay concentrations:</b> In 1.5ml reaction mix, the final concentrations are 79 mM potassium phosphate, 0.033%(w/v) reduced glutathine, 0.003% (w/v) bovine serum albumin, 0.033% methylglyoxal(w/v) and recombinant glyoxalase I (0.5ug, 1ug, 2ug). 1. Prepare protein-free reaction buffer without recombinant protein into suitable container (for

each protein concentration).

2. Equilibrate protein-free reaction buffer to 25°C and monitor at A240nm (absorbance) until the value is constant, using a spectrophotometer.

3. Dilute various concentrations of recombinant glyoxalase I (0.5ug, 1ug, 2ug) in 50ul of 10mM potassium phosphate buffer with 0.1% (wv) BSA, pH7.4.

Add 50ul of recombinant glyoxalase I solution to 1.45ml reaction buffer.

Immediately mix by inversion and record the increase at A240nm for 5 minutes

## 制备和贮存

### 稳定性和存储

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.0154% DTT, 0.316% Tris HCl, 10% Glycerol (glycerin, glycerine)

This product is an active protein and may elicit a biological response in vivo, handle with caution.

## 常规信息

### 功能

Catalyzes the conversion of hemimercaptal, formed from methylglyoxal and glutathione, to S-lactoylglutathione.

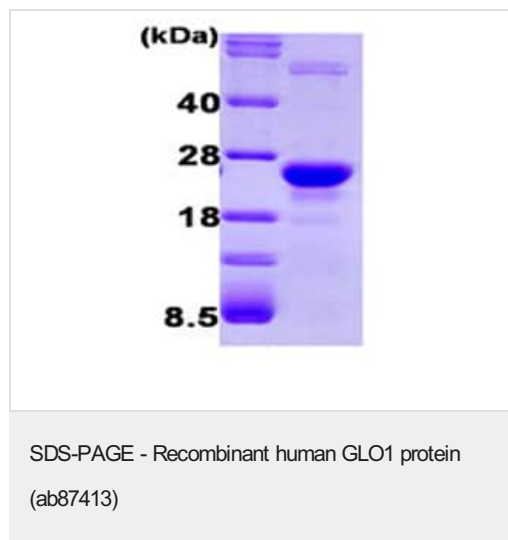
### 通路

Secondary metabolite metabolism; methylglyoxal degradation; (R)-lactate from methylglyoxal: step 1/2.

### 序列相似性

Belongs to the glyoxalase I family.

## 图片



ab87413 on 15% SDS-PAGE (3μg)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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