葡萄糖氧化酶（Glucose oxidase, GOD）

种属：	Aspergillus niger
表达系统：	Prokaryotic expression system、Eukaryotic expression system
标签：	N-His
同用名：	β-D-Glucose:oxygen 1-oxidoreductase; G.Od.;GOx
分子量：	65.5 KDa
纯度：	lyophilized powder, >180 U/mg
储存条件:	This enzyme is soluble (1.0 mg/mL) in 50 mM sodium acetate buffer, pH 5.1,yielding a clear solution.
备注:	This product is for R&D use only, not for drug,household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.
储存时间：	Dry and store at -20° C for at least 1 year.
运输：	Ice pack transport

四川肽极生物
SI CHUAN TAI JI SHENG WU

技术咨询电话: 13522791889
官方网站: http://www.aiprotein-taiji.com
邮箱: machangxing@pku.org.cn
地址: 中国（四川）自由贸易试验区成都市天府新区兴隆街道湖畔路东段733号

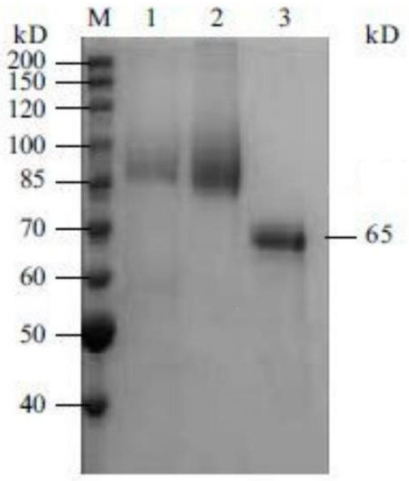
背景:

Glucose Oxidase (EC NO. 1.1.3.4), derived from Aspergillus niger, is a dimer composed of two identical subunits, each of which has a molecular weight of about 80kDa. Glucose Oxidase (EC NO. 1.1.3.4), derived from Aspergillus niger, is a dimer composed of two identical subunits, each of which has a molecular weight of about 80kDa. Each subunit contains a flavin adenine dinucleotide (FAD) and an iron ion. Glucose oxidase is a glycoprotein containing ~16% neutral sugars and 2% amino sugars. It also contains 3 cysteine residues and 8 potential sites for N-linked glycosylation.

Glucose oxidase can oxidize D-hexalose, monodeoxy-D-glucose and methyl-D-glucose to varying degrees. It is active in the pH 4-7 range, with an optimal pH of 5.5. Specific recognition of B-D-glucose, KM value of 33~110mM. Glucose oxidase does not require any activator, but its activity is inhibited by Ag+, Hg2+, Cu2+, phenylmercuric acetate, and p-chloromercurbenzoic acid (PCMB), and is not inhibited by non-metallic SH reagents: N-ethyl maleimide, iodoacetic acid, and iodoacetamide.

Glucose oxidase can be used for enzymatic quantification of D-glucose in solution. Because glucose oxidase oxidizes B-D-glucose to produce D-glucolactone and H202, horseradish peroxidase (HRP) is commonly used as a coupling enzyme in glucose assay. This product is widely used in the video and pharmaceutical industries, as well as as a major component in glucose biosensors.

展示数据 ：



重组表达GOD蛋白SDS-PAGE

技术咨询电话: 13522791889
官方网站: http://www.aiprotein-taiji.com
邮箱: machangxing@pku.org.cn
地址: 中国（四川）自由贸易试验区成都市天府新区兴隆街道湖畔路东段733号