



碧云天生物技术/Beyotime Biotechnology  
订货热线: 400-1683301或800-8283301  
订货e-mail: order@beyotime.com  
技术咨询: info@beyotime.com  
网址: http://www.beyotime.com

## 伴刀豆球蛋白A (ConA) (BioReagent)

产品编号	产品名称	包装
ST2062-25mg	伴刀豆球蛋白A (ConA) (BioReagent)	25mg
ST2062-100mg	伴刀豆球蛋白A (ConA) (BioReagent)	100mg
ST2062-500mg	伴刀豆球蛋白A (ConA) (BioReagent)	500mg

### 产品简介:

CAS Number	Chemical Formula	Molecular Weight	Purity	Grade
11028-71-0	-	102kDa	>90%	BioReagent

### ➤ 基本信息(General Information):

Name (Chinese)	伴刀豆球蛋白A
Name (English)	Concanavalin A
Specifications	BioReagent, type IV
Chemical Formula	-
Synonym (Chinese)	刀豆球蛋白A, 刀豆凝集素A, 刀豆素A
Synonym (English)	ConA, Con A
Beilstein Registry No.	-
EINECS Number	234-258-2
MDL Number	MFCD00071069
UNSPSC Code	-

### ➤ 产品描述(Description):

Application	ConA binds specifically to $\alpha$ -Mannose、 $\alpha$ -Galactose structures found in sugars, glycoproteins and glycolipids. ConA is a T cell mitogen that can activate the immune system, recruit lymphocytes and elicit cytokine production [1]. In addition to its mitogenic activity, ConA can induce programmed cell death via mitochondria-mediated apoptosis and autophagy [2-4]. Also, ConA has been reported to activate NFAT (Nuclear factor of activated T cells), a family of transcription factors that are important in the development and function of the immune system, including T cell receptor engagement [5]. Immobilized Con A has been used in affinity chromatography purifications of a wide variety of glycoproteins and cellular structures.
General description	Concanavalin A (ConA) lectin is isolated from Jack beans ( <i>Canavalia ensiformis</i> ) and purified by affinity chromatography. It has broad applicability and is the most widely used lectin within molecular biology research. The identity is determined by SDS-PAGE and the protein content by spectrophotometry. The molecular weight of the lectin is 102kDa, and the molecular weight of its monomer is 25.5kDa. Polyacrylamide gel electrophoresis in SDS of ConA yields three major bands corresponding to molecular weights 27, 13 and 10kDa. One minor band is visible at 18kDa.

### ➤ 性质(Properties):

Appearance	White lyophilized powder or flocculate.
Form	Lyophilized powder from a buffer containing 0.5mM MnCl <sub>2</sub> , 0.5mM CaCl <sub>2</sub> , no preservatives are added.
Reconstitution	ConA may be reconstituted with $\geq 1$ mg/ml of PBS (pH7.4) or 0.9% sodium chloride solution before use. Spin the vial gently until full dissolution. Aggregation is thought to occur in the presence of high concentrations of 2-mercaptoethanol. In absence of

	lactose the lectin will polymerize and storage at pH8.6-8.8 causes precipitation.
Potency	ConA reacts with a number of bacterial and animal cells and can distinguish between certain normal and tumor cells. It can initiate cell division (mitogenesis). ≤40µg per ml agglutination activity.
Microorganisms	<100 CFU/g
Protein content	>90% protein by OD <sub>280nm</sub> (ε 1mg/ml=1.14), essentially salt free.
Storage temp.	-20°C

➤ **安全信息(Safety Information):**

Hazard Pictogram Codes	GHS08
Signal Word	Danger
Hazard Statements	H317-H334-H361
Precautionary Statements	P201-P202-P280-P302 + P352-P304 + P340 + P312-P308 + P313
Personal Protective Equipment	dust mask type N95 (US), Eyeshields, Gloves
Hazard Codes (Europe)	-
Risk Codes (Europe)	-
Safety Codes (Europe)	-
RIDADR	-
WGK Germany	WGK 3
RTECS	GK6890000
Flash Point (F)	-
Flash Point (C)	-

**包装清单:**

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—	说明书	1份

**保存条件:**

-20°C保存, 三年有效。

**注意事项:**

- 本产品仅限于专业人员的科学研究用, 不得用于临床诊断或治疗, 不得用于食品或药品, 不得存放于普通住宅内。
- 为了您的安全和健康, 请穿实验服并戴一次性手套操作。

**参考文献:**

1. Dwyer JM, Johnson C. Clin Exp Immunol. 1981. 46(2):237-49.
2. Lei HY, Chang CP. J Biomed Sci. 2009. 16(1):10.
3. Kulkarni GV, Lee W, Seth A, McCulloch CA. Exp Cell Res. 1998. 245(1):170-8.
4. Li WW, Yu JY, Xu HL, Bao JK. Biochem Biophys Res Commun. 2011. 414(2):282-6.
5. Bemer V, Truffa-Bachi P. Eur J Immunol. 1996. 26(7):1481-8.

**相关产品:**

产品编号	产品名称	包装
P2156-5ml	BeyoMag™ Concanavalin A Magnetic Beads (刀豆素A磁珠)	5ml
P2156-1ml	BeyoMag™ Concanavalin A Magnetic Beads (刀豆素A磁珠)	1ml
P2156-200µl	BeyoMag™ Concanavalin A Magnetic Beads (刀豆素A磁珠)	200µl
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