



碧云天生物技术/Beyotime Biotechnology
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Recombinant Cholera Toxin B subunit

产品编号	产品名称	包装
P7418-100µg	Recombinant Cholera Toxin B subunit	100µg
P7418-500µg	Recombinant Cholera Toxin B subunit	500µg
P7418-1mg	Recombinant Cholera Toxin B subunit	1mg

产品简介:

Species	Gene ID	Accession	Source	Length	MW	Tag
Vibrio cholerae	2613962	P01556	<i>E. coli</i>	103aa	11.6kDa	—

About this protein	
Name	(Recombinant Cholera Toxin B subunit; rCTB); 重组霍乱毒素B亚基
Synonyms	CTB; Cholera toxin; CTX; Ctx; CT
Purity	>98% by SDS-PAGE and HPLC analyses.
Biological Activity	Data Not Available.
Physical Appearance	Sterile colorless liquid.
Formulation	Supplied as a 0.2µM filtered solution in 5mM PB, pH7.0, 75mM NaCl, with 50% glycerol.
Endotoxin	Less than 0.1EU/µg of rCTB as determined by LAL method.
Reconstitution	—
Category	Others
Background	Cholera toxin is protein complex secreted by the bacterium <i>Vibrio cholerae</i> . CTX is responsible for the massive, watery diarrhea characteristic of cholera infection. The cholera toxin is an oligomeric complex made up of six protein subunits: a single copy of the A subunit (part A, enzymatic), and five copies of the B subunit (part B, receptor binding), denoted as AB ₅ . Subunit B binds while subunit A activates the G protein which activates adenylate cyclase. The five B subunits - each weighing 11 kDa, form a five-membered ring. The A subunit which is 28 kDa, has two important segments. The A1 portion of the chain (CTA1) is a globular enzyme payload that ADP-ribosylates G proteins, while the A2 chain (CTA2) forms an extended alpha helix which sits snugly in the central pore of the B subunit ring. This structure is similar in shape, mechanism, and sequence to the heat-labile enterotoxin secreted by some strains of the <i>Escherichia coli</i> bacterium.
Amino Acid Sequence	TPQNITDLCA EYHNTQIYTL NDKIFSYPES LAGKREMAII TFKNGAIFQV EVPGSQHIDS QKKAIERMKD TLRIAYLTEA KVEKLCVWNN KTPHAIAAIS MAN

包装清单:

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—	说明书	1份

保存条件:

-20°C或更低温度保存, 至少一年有效。由于蛋白的每次冻融均会引起部分失活, 所以首次配制成相应浓度的储存液后(请根据产品简介中Reconstitution一栏的信息配制储存液), 须分装后-20°C或更低温度冻存, 以避免反复冻融。

注意事项:

- 由于有些塑料管壁对某些蛋白有较强的吸附作用, 溶液中的蛋白很容易粘附在管壁上, 并且粘附后的蛋白很难与管壁分离。而载体蛋白(Carrier protein, 如0.1% BSA等)的主要作用是预先封闭塑料管壁上的蛋白结合位点, 使细胞因子或重组蛋白不会粘附于管壁。所以一定要使用产品简介中Reconstitution一栏的信息配制储存液。
- 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。

使用说明：

1. 收到产品后请立即按照说明书推荐的条件保存。除非特别注明，碧云天相关产品均为冻干粉，由于微量的蛋白在冻干过程中沉积在管内，形成很薄或不可见的蛋白层，所以在打开管盖前，我们建议在离心机中约8,000-12,000g离心10-30秒，使附着在管盖或管壁上的蛋白聚集于管底。
2. 请根据实验目的并按照产品简介中**Reconstitution**一栏中的信息配制储存液。大多数细胞因子或重组蛋白的冻干粉是很容易溶解的，一般用移液枪的枪头轻吹几下或者轻轻摇晃瓶子，即可使细胞因子或重组蛋白完全溶解。请勿用vortex剧烈振荡，以免蛋白变性而失活。
3. 具体的最佳工作浓度请自行参考相关文献，或者根据实验目的，以及特定细胞和动物，通过实验进行摸索和优化。

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