



碧云天生物技术/Beyotime Biotechnology
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Recombinant Streptavidin (重组链霉亲和素)

产品编号	产品名称	包装
P5085-1mg	Recombinant Streptavidin (重组链霉亲和素)	1mg
P5085-5mg	Recombinant Streptavidin (重组链霉亲和素)	5mg
P5085-20mg	Recombinant Streptavidin (重组链霉亲和素)	20mg
P5085-100mg	Recombinant Streptavidin (重组链霉亲和素)	100mg

产品简介:

Species	Gene ID	Accession	Source	Length	MW	Tag
<i>Streptomyces avidinii</i>	X03591	P22629	<i>E. coli</i>	128aa	52kDa (tetramer)	—

蛋白信息(About this protein)	
名称(Name)	Recombinant Streptavidin
别名(Synonyms)	Streptavidin; rStreptavidin; 重组链霉亲和素; 链霉亲和素; 链霉抗生物素蛋白
产品简介 (Background)	Beyotime's recombinant streptavidin was expressed in <i>E. coli</i> and purified. Streptavidin is a tetrameric protein produced by <i>Streptomyces avidin</i> . This protein binds the vitamin D-biotin with an affinity higher than any other known biological binding site ($K_d \sim 1 \times 10^{-15}M$) [1]. The N and C terminal of the 159 residues full length protein is processed to give a shorter core streptavidin, usually composed of residues 13-139; removal of the N and C terminal is necessary for the highest biotin-binding affinity. The molecular mass for the native protein as ~52kDa per tetramer, but under extreme denaturing conditions, giving a major band at about ~13kDa. Streptavidin is a highly stable protein that can maintain its functional structure even under a variety of harsh conditions, such as high temperatures and the presence of high concentrations of denaturants and organic solvents. These unique properties, along with the ability of biotin to be incorporated easily into various biological materials without disturbing their properties and structures, allow streptavidin to serve as a powerful, versatile tool in biomedical science and clinical diagnostics [2].
产品用途 (Applications)	Among the most common uses of streptavidin are the purification or detection of various biomolecules. The strong streptavidin-biotin interaction can be used to attach various biomolecules to one another or onto a solid support. This version of recombinant streptavidin has a higher binding capacity to Biotin than regular streptavidin when conjugated to magnetic beads or agarose beads.
外观 (Physical appearance)	Sterile colorless liquid
活性 (Biological activity)	>17U/mg (one unit binds 1 μ g D-biotin)
浓度 (Concentration)	10mg/ml
纯度(Purity)	>98% by SDS-PAGE
储存液 (Storage buffer)	Supplied as a 0.2 μ m filtered concentrated sterile solution in PBS.

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, 至少两年有效。由于蛋白的每次冻融均会引起部分失活, 首次使用时建议分装后-20°C或更低温度冻存, 以避免反复冻融。

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。

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。首次使用时建议适当分装后保存, 以避免过多的反复冻融而影响蛋白活性。
2. 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。

参考文献:

1. Green NM. Avidin. Adv Protein Chem. 1975. 29:85-133.
2. Ostojic GN, Hersam MC. Small. 2012. 8(12):1840-1845.

相关产品:

产品编号	产品名称	包装
A0303	辣根过氧化物酶标记Streptavidin	0.2ml
A0305	辣根过氧化物酶标记Streptavidin	0.2/1/5ml
A0312	碱性磷酸酯酶标记Streptavidin	0.2ml
P2151	BeyoMag™ Streptavidin Magnetic Beads (链霉亲和素磁珠)	200µl/1ml/5ml
P5084	Recombinant Streptavidin	1/5/20/100mg
P5085	Recombinant Streptavidin (重组链霉亲和素)	1/5/20/100mg
P5087	Monomeric Streptavidin (单体链霉亲和素)	1/5/20/100mg

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