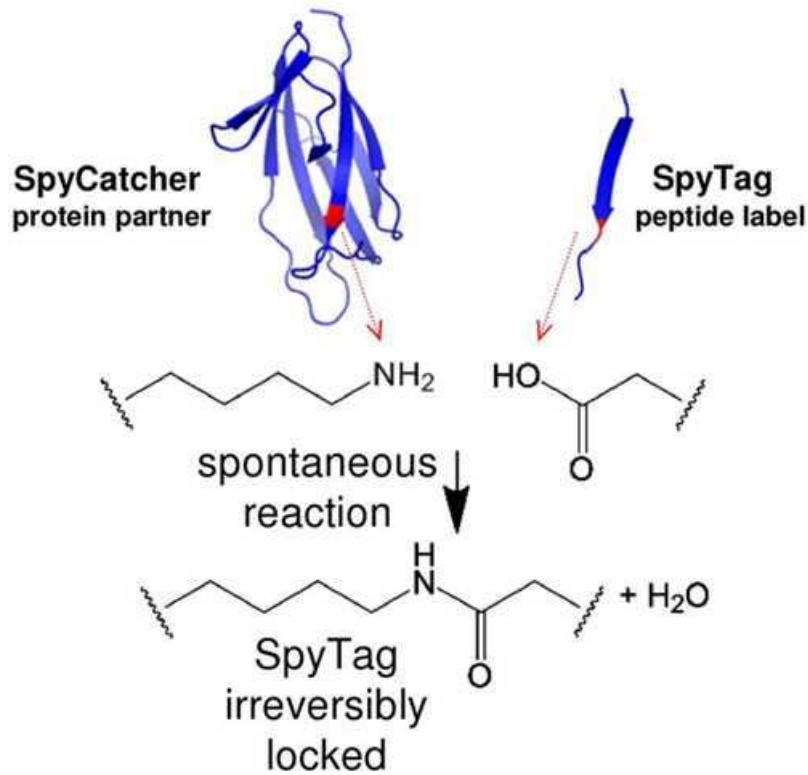


# spytag003-mbp蛋白

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产品图片



产品英文名称

[SpyTag003-MBP Protein](#)

产品别名

[Kerafast独特的生物试剂](#)

货号/SKU

EOX005

货号/规格

0.5mg

库存与交货期

1-2周

人民币价格

8050

人民币价格说明

本商品人民币2024年销售价格正在调整中，请等待更新完毕。

本商品的展示的人民币价格已包含商品本身金额、VAT增值税13%、国际运输运费、国内物流运费、运输保险、以及冷链包装材料（例如液氮罐、泡沫箱、金属桶、蓝冰、湿冰、干冰、蓄冷剂、液氮等）、装卸费、相关资料费、人力支出等一切费用。

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产品基础信息

From the laboratory of Mark Howarth, PhD, University of Oxford.

产品描述信息

Product Type: Protein  
Name: SpyTag/SpyCatcher Protein Coupling Reagents  
Accession ID: JQ478411.1 (SpyCatcher)  
Source: Recombinant expression in E. coli  
Molecular Weight: 15,597.7 Da (SpyCatcher003) 15,613.7 Da (SpyCatcher003, S49C); 44,867.78 Da (SpyTag003-MBP)

**SpyCatcher003:**

SYHHHHHHHDYDIPTTENLYFQGAMVTLSGLSGEQPSGDMTTEEDSATHIKFSK

RDEDGRELAGATMELRDSSGKTISTWISDGHVKDFLYPGKYTFVETAAPDGYEVATPIEFTVNEDGQ

VTVDGEATEGDAHTGSSGS

**SpyCatcher003 (S49C):**

SYHHHHHHHDYDIPTTENLYFQGAMVTLSGLSGEQPSGDMTTEEDSA

THIKFSKRDEDGRELAGATMELRDCSGKTISTWISDGHVKDFLYPGKYTFVETAAPDGYEVATPIEF

TVNEDGQVTVDGEATEGDAHTGSSGS

Amino Acid  
Sequence:

**SpyTag003:**

GSSHHHHHSSGLVPRGSRGVPHIVMVDAYKRYKSGESGKIEEGKLVWINGDKGY

NGLAEVGGKFEKDTGIKVTVHEHPDKLEEKFPQVAATGDGPDIFWAHDRFGGYAQSGLLAEITP

DKAFQDKLYPFTWDAVRYNGKLIAYPIAVEALSLIYNKDLLPNPPKTWEEIPALDKELKAKGKSAL

MFNLQEPYFTWPLIAADGGYAFKYENKDYDIKDVGVNAGAKAGLTFVLVDLIKHKHMNADTDY

SIAEAAFNKGETAMTINGPWAWSNIDTSKVNYGVTVLPTFKGQPSKPFVGLSAGINAASPNK

ELAKEFLENYLLTDEGLEAVNKDKPLGAVALKSYEEELAKDPRIAATMENAQKGEIMPNIQPM

SAFWYAVRTAVINAASGRQTVDEALKDAQTNSSS

Fusion Tag(s): N-terminal 6xHis tag for each

Purity: >95%. Purified from Ni-NTA affinity chromatography and then by size exclusion chromatography.

Buffer: Phosphate buffered saline (PBS) pH 7.4

Concentration: 2.32mg/mL (SpyCatcher003), 2.38mg/mL (SpyCatcher003, S49C), 2.47mg/mL (SpyTag003-MBP)

Amount: 0.5mg

Storage: -80C, avoid multiple freeze-thaw cycles

Shipped: Dry ice

**产品安全信息**

Keeble AH, Turkki P, Stokes S, Khairil Anuar INA, Rahikainen R, Hytönen VP, Howarth M. Approaching infinite affinity through engineering of peptide-protein interaction. *Proc Natl Acad Sci U S A*. 2019 Dec 10;116(52):26523-26533. Zakeri B, Fierer JO, Celik E, Chittock EC, Schwarz-Linek U, Moy VT, Howarth M. Peptide tag forming a rapid covalent bond to a protein, through engineering a bacterial adhesin. *Proc Natl Acad Sci U S A*. 2012 Mar 20;109(12):E690-7. Veggiani G., Zakeri B., Howarth M. Superglue from Bacteria: Unbreakable Bridges for Protein Nanotechnology. *Trends in Biotechnology* 2014 Oct;32(10):506-12. Schoene C, Fierer JO, Bennett SP, Howarth M. SpyTag/SpyCatcher Cyclization Confers Resilience to Boiling on a Mesophilic Enzyme. *Angewandte Chemie*. 2014 Jun 10;53(24):6101-4. Fierer JO, Veggiani G, Howarth M. SpyLigase peptide-peptide ligation polymerizes affibodies to enhance magnetic cancer cell capture. *Proc Natl Acad Sci U S A*. 2014 Apr 1;111(13):E1176-81. Li L, Fierer JO, Rapoport TA, Howarth M. Structural analysis and optimization of the covalent association between SpyCatcher and a peptide tag. *Journal of Molecular Biology*. 2014 Jan 23;426(2):309-17. Min, Duyoung; Arbing, Mark A; Jefferson, Robert E; Bowie, James U. A simple DNA handle attachment method for single molecule mechanical manipulation experiments. *Protein Sci*. 2016 01;25(8):1535-44 View ArticleDovala, Dustin; Sawyer, William S; Rath, Christopher M; Metzger, Louis E. Rapid analysis of protein expression and solubility with the SpyTag-SpyCatcher system. *Protein Expr Purif*. 2016 01;117:44-51 View ArticleAlves, Nathan J; Turner, Kendrick B; Daniele, Michael A; Oh, Eunkeu; Medintz, Igor L; Walper, Scott A. Bacterial Nanobioreactors--Directing Enzyme Packaging into Bacterial Outer Membrane Vesicles. *ACS Appl Mater Interfaces*. 2015 11 11;7(44):24963-72 View ArticleReddington, Samuel C; Howarth, Mark. Secrets of a covalent interaction for biomaterials and biotechnology: SpyTag and SpyCatcher. *Curr Opin Chem Biol*. 2015 12;29:94-9 View ArticleJanitzek, Christoph M; Matondo, Sungwa; Thrane, Susan; Nielsen, Morten A; Kavishe, Reginald; Mwakalinga, Steve B; Theander, Thor G; Salanti, Ali; Sander, Adam F. Bacterial superglue generates a full-length circumsporozoite protein virus-like particle vaccine

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PLoS One. 2016;11(10):e0165074 View ArticleWang, Jindan; Wang, Yilin; Wang, Xinzhe; Zhang, Dandan; Wu, Shuyu; Zhang, Guangya. Enhanced thermal stability of lichenase from Bacillus subtilis 168 by SpyTag/SpyCatcher-mediated spontaneous cyclization. Biotechnol Biofuels. 2016;9:79 View ArticleThrane, Susan; Janitzek, Christoph M; Matondo, Sungwa; Resende, Mafalda; Gustavsson, Tobias; De Jongh, Willem Adriaan; Clemmensen, Stine; Roeffen, Will; Van de Vegte-Bolmer, Marga; Van Gemert, Geert Jan; Sauerwein, Robert; Schiller, John T; Nielsen, Morten A; Theander, Thor G; Salanti, Ali; Sander, Adam F. Bacterial superglue enables easy development of efficient virus-like particle based vaccines. J Nanobiotechnology. 2016 04 27;14:30 View ArticleBedbrook, Claire N; Kato, Mihoko; Ravindra Kumar, SriPriya; Lakshmanan, Anupama; Nath, Ravi D; Sun, Fei; Sternberg, Paul W; Arnold, Frances H; Gradinaru, Viviana. 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#### 主要内容

Spytag / Spycatcher系统是一种方便的蛋白质偶联工具，用于不可逆的肽 - 蛋白质连接。它是绑定，标记，固定化和创造新种类蛋白质结构的理想选择。高灯： SpyTAG在结合其遗传编码的合作伙伴间谍运动器时形成自发的酰胺键，其

高度兼容性 - SpyTag在极稳定的反应产品的广泛条件下与瞬间反应 - SPYcatcher / SPYTAG复合物在SDS SPYCATCHER中稳定稳定 (S49C) 版本含有独特的半胱氨酸残留物, 用于精确标记用染料或精确附着到表面或珠粒肽与蛋白质的相互作用通常弱。Spytag是一种遗传编码的肽 (SpyTAG003序列RGVPHIVMVEDDKRYK), 其在结合其遗传编码的合作伙伴间课程时形成自发的酰胺键 (使用此处提供的最新版本的SPYCATCHER003)。SpyTAG003在各种条件下与Spycatcher003反应, 并在反应后该产物在SDS中沸腾稳定。Spycatcher003 (S49C) 具有独特的半胱氨酸, 用于精确标记染料或精确附着到表面或珠粒。从牛津大学Mark Howarth的实验室, 博士学位。  
厂牌介绍

## 关于Kerafast Inc.

Kerafast 是一家位于波士顿的试剂公司, 其主要使命是为QuanQiu科学界提供易于使用的独特实验室研究工具。我们的产品组合包括细胞系、抗体、小分子、染料等, 其中许多在其他地方无法获得。自 2011 年成立以来, 来自全球 190 多个机构的研究人员通过我们的在线平台提供了他们的创新试剂, 无需通过传统的材料转让协议流程即可快速获取材料。

我们处理提供实验室的所有销售和运输物流, 并从每次销售中返还丰厚的特许权使用费。因此, 我们帮助提供实验室节省时间和资源, 同时为进一步研究提供额外资金。采购科学家可以更轻松地发现和获取其他地方通常无法获得的独特试剂, 同时还可以资助其他研究人员的工作。这创建了一个QuanQiu科学家社区, 他们贡献和获取Reagent for the Greater Good, 以加速他们自己的研究以及整体科学进步。

2018 年, Kerafast 与Absolute Antibody合并, 后者是一家总部位于英国的公司, 其愿景是为所有研究人员提供重组抗体技术。此次合并将两家公司聚集在一起, 共同致力于改善科学界可用的研究工具的选择。

### 品牌标识



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A/Dunedin/6/1983\(HA,NA\)xA/PuertoRico/8/1934\(H1N1\), Reassortant X-81\(病毒\)](#)  
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2022-04-01

[抗D\[Rho\]抗体, 人73/517](#)  
2024-05-19

[NR-41926 肺炎克雷伯菌, BIDMC10\(细菌\)](#)  
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