



碧云天生物技术/Beyotime Biotechnology  
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## Recombinant Protein A/G

产品编号	产品名称	包装
P5049-10mg	Recombinant Protein A/G	10mg
P5049-100mg	Recombinant Protein A/G	100mg
P5049-1g	Recombinant Protein A/G	1g

### 产品简介:

Species	Gene ID	Accession	Source	Length	Calculated MW	Tag
—	—	—	<i>E. coli</i>	514aa	~56kDa	—

About this protein	
Name	Recombinant Protein A/G (rProtein A/G; Protein A/G); 重组蛋白A/G; 蛋白A/G融合蛋白
Synonyms	N/A
Purity	>98% by SDS-PAGE and HPLC analyses.
Biological Activity	The recombinant Protein A/G is a genetically engineered protein containing 5 IgG-binding regions of protein A and 3 IgG-binding regions of protein G. There was a linker (22aa) between protein A and protein G, which enhanced the IgG-binding regions' flexibility. Cell wall binding region, cell membrane binding region and albumin binding region have been removed from the recombinant Protein A/G to ensure the maximum specific IgG binding. The recombinant Protein A/G is ideal for purification of polyclonal or monoclonal IgG antibodies. Protein A/G binds to various human, mouse and rat IgG subclasses (e.g., human IgG1, IgG2, IgG3, IgG4; mouse IgG2a, IgG2b, IgG3; rat IgG2a, IgG2c). It also binds to total IgG from guinea pig, dog, cat, cow, goat, sheep, house and rabbit.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from additive free solution.
Endotoxin	Less than 0.1EU/μg of Protein A/G as determined by LAL method.
Reconstitution	Dissolve in distilled water or saline.
Category	Protein A/G
Background	The recombinant Protein A/G consists of 7 IgG-binding domains EDABC-C1C3, which corresponds to the Protein A and G domains included in the recombinant sequence. The Protein A portion is from <i>Staphylococcus aureus</i> segments E, D, A, B and C. The Protein G portion is from <i>Streptococcus</i> segments C1 and C3. The binding capacity of recombinant Protein A/G is broader than either Protein A or Protein G alone [1-4].
Amino Acid Sequence	SAQHDEAQQN AFYQVLNMPN LNADQRNGFI QSLKDDPSQS ANVLGEAQKL NDSQAPKADA QQNNFNKDQQ SAFYEILNMP NLNEAQRNGF IQSLKDDPSQ STNVLGEAKK LNESQAPKAD NNFNKEQQNA FYEILNMPNL NEEQRNGFIQ SLKDDPSQSA NLLSEAKKLN ESQAPKADNK FNKEQQNAFY EILHLPNLNE EQRNGFIQSL KDDPSQSANL LAEAKKLNDA QAPKADNKFN KEQQNAFYEI LHLPLNLTTEE RNFQIQLK DPSVSKEILA EAKKLNDAQA PKEEDEFGGG GSGGGGSGGG GSGGGGSGST YKLILNGKTL KGETTTEAVD AATAEKVFKQ YANDNGVDGE WTYDDATKTF TVTEKPEVID ASELTPAVTT YKLVINGKTL KGETTTEAVD AATAEKVFKQ YANDNGVDGE WTYDDATKTF TVTEKPEVID ASELTPAVTT YKLVINGKTL KGETTTKAVD AETAEKAFKQ YANDNGVDGV WTYDDATKTF TVTE

### 包装清单:

产品编号	产品名称	包装
P5049-10mg	Recombinant Protein A/G	10mg
P5049-100mg	Recombinant Protein A/G	10mg×10
P5049-1g	Recombinant Protein A/G	1g
—	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8,000-12,000×g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非常容易溶解的, 一般用移液枪的枪头轻吹几下或者轻轻摇晃, 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。

## 参考文献:

1. Graille M, Stura EA, Corper AL, et al. Proc Natl Acad Sci U S A. 2000. 97(10):5399-5404.
2. Idusogie EE, Presta LG, Gazzano-Santoro H, et al. J Immunol. 2000. 164(8):4178-84.
3. Sjöbring U, Björck L, Kastern W. J Biol Chem. 1991. 266(1):399-405.
4. Kmiecik S, Kolinski A. Biophys J. 2008. 94(3):726-736.

## 相关产品:

产品编号	产品名称	包装
P4242-10mg	重组蛋白A	10mg
P4242-100mg	重组蛋白A	100mg
P4246-10mg	重组蛋白G	10mg
P4246-100mg	重组蛋白G	100mg
P5003-10mg	Recombinant Protein A, His-tag	10mg
P5003-100mg	Recombinant Protein A, His-tag	100mg
P5007-10mg	Recombinant Protein A-Cys, His-tag	10mg
P5007-100mg	Recombinant Protein A-Cys, His-tag	100mg
P5012-10mg	Recombinant Protein A-Cys	10mg
P5012-100mg	Recombinant Protein A-Cys	100mg
P5016-10mg	Recombinant Protein A	10mg
P5016-100mg	Recombinant Protein A	100mg
P5017-10mg	Recombinant Protein A	10mg
P5017-100mg	Recombinant Protein A	100mg
P5021-10mg	Recombinant Protein A, Long Form	10mg
P5021-100mg	Recombinant Protein A, Long Form	100mg
P5025-10mg	Recombinant Protein A-Cys, Long Form	10mg
P5025-100mg	Recombinant Protein A-Cys, Long Form	100mg
P5030-5mg	Recombinant Protein G, His-tag	5mg
P5030-50mg	Recombinant Protein G, His-tag	50mg
P5034-5mg	Recombinant Protein G	5mg
P5034-50mg	Recombinant Protein G	50mg
P5035-10mg	Recombinant Protein G	10mg
P5035-100mg	Recombinant Protein G	100mg
P5035-1g	Recombinant Protein G	1g
P5036-10mg	Recombinant Protein G Plus	10mg
P5036-100mg	Recombinant Protein G Plus	100mg
P5036-1g	Recombinant Protein G Plus	1g

P5037-10mg	Recombinant Protein G Plus	10mg
P5037-100mg	Recombinant Protein G Plus	100mg
P5037-1g	Recombinant Protein G Plus	1g
P5039-5mg	Recombinant Cys-Protein G	5mg
P5039-50mg	Recombinant Cys-Protein G	50mg
P5043-1mg	Recombinant Protein A/G, His-tag	1mg
P5043-25mg	Recombinant Protein A/G, His-tag	25mg
P5043-100mg	Recombinant Protein A/G, His-tag	100mg
P5048-1mg	Recombinant Protein A/G	1mg
P5048-25mg	Recombinant Protein A/G	25mg
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P5049-100mg	Recombinant Protein A/G	100mg
P5049-1g	Recombinant Protein A/G	1g
P5052-1mg	Recombinant Cys-Protein A/G	1mg
P5052-25mg	Recombinant Cys-Protein A/G	25mg
P5052-100mg	Recombinant Cys-Protein A/G	100mg
P5057-1mg	Recombinant Protein A/G-Cys	1mg
P5057-25mg	Recombinant Protein A/G-Cys	25mg
P5057-100mg	Recombinant Protein A/G-Cys	100mg
P5061-1mg	Recombinant Protein L, His-tag	1mg
P5061-25mg	Recombinant Protein L, His-tag	25mg
P5061-100mg	Recombinant Protein L, His-tag	100mg
P5066-1mg	Recombinant Protein L-Cys, His-tag	1mg
P5066-25mg	Recombinant Protein L-Cys, His-tag	25mg
P5066-100mg	Recombinant Protein L-Cys, His-tag	100mg
P5070-1mg	Recombinant Protein L-Cys	1mg
P5070-25mg	Recombinant Protein L-Cys	25mg
P5070-100mg	Recombinant Protein L-Cys	100mg
P5075-1mg	Recombinant Protein L	1mg
P5075-25mg	Recombinant Protein L	25mg
P5075-100mg	Recombinant Protein L	100mg
P5076-10mg	Recombinant Protein L	10mg
P5076-100mg	Recombinant Protein L	100mg
P5076-1g	Recombinant Protein L	1g
P5079-1mg	Recombinant Cys-Protein L	1mg
P5079-25mg	Recombinant Cys-Protein L	25mg
P5079-100mg	Recombinant Cys-Protein L	100mg
P5088-1mg	Recombinant Protein A/G/L	1mg
P5088-25mg	Recombinant Protein A/G/L	25mg
P5088-100mg	Recombinant Protein A/G/L	100mg
P5093-1mg	Recombinant Protein A/G/L-Cys	1mg
P5093-25mg	Recombinant Protein A/G/L-Cys	25mg
P5093-100mg	Recombinant Protein A/G/L-Cys	100mg
P5097-1mg	Recombinant Cys-Protein A/G/L	1mg
P5097-25mg	Recombinant Cys-Protein A/G/L	25mg
P5097-100mg	Recombinant Cys-Protein A/G/L	100mg

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