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Recombinant Murine FABP1

产品编号	产品名称	包装
P7347-5μg	Recombinant Murine FABP1	5μg
P7347-100μg	Recombinant Murine FABP1	100μg
P7347-500μg	Recombinant Murine FABP1	500μg

产品简介：

Species	Gene ID	Accession	Source	Length	MW	Tag
Murine	14080	P12710	*E. coli*	127aa	14.2kDa	—

About this protein	
Name	Recombinant Murine FABP1 (Recombinant Murine Fatty-acid-binding Protein 1; rMuFABP1)；重组小鼠脂肪酸结合蛋白1
Synonyms	L-FABP; FABPL; fatty acid binding protein 1, liver; fatty acid-binding protein, liver; L-FABPFatty acid-binding protein 1; Liver-type fatty acid-binding protein
Purity	>95% by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The binding affinity of rMuFABP1 for the synthetic ligand cis-parinaric acid has been measured by fluorescence titration. Half maximal fluorescence of 2.5μM rMuFABP1 is achieved with approximately 5μM cis-paranaric acid.
Physical Appearance	Sterile Filtered lyophilized (freeze-dried) liquid-like powder
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH7.4, 2% trehalose.
Endotoxin	Less than 1EU/μg of rMuFABP1 as determined by LAL method.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤-20°C. Further dilutions should be made in appropriate buffered solutions.
Category	Others
Background	The fatty-acid-binding proteins (FABPs) are a family of carrier proteins for fatty acids and other lipophilic substances such as eicosanoids and retinoids. These proteins are thought to facilitate the transfer of fatty acids between extra- and intracellular membranes. Fatty acid-binding protein 1 (FABP1) encoded by the FABP1 gene, also known as liver-type fatty acid-binding protein (L-FABP), is a member of FABP family and it is a small, highly conserved, cytoplasmic proteins. In addition, FABP1 binds free fatty acids and their coenzyme A derivatives, bilirubin, and some other small molecules in the cytoplasm. Furthermore, it may be involved in intracellular lipid transport. Through amino acid sequence comparison, murine FABP1 shares 84% and 94%a.a. sequence identity with human and rat FABP1.
Amino Acid Sequence	MNFSGKYQLQ SQENFEPFMK AIGLPEDLIQ KGKDIKGVSE IVHEGKKIKL TITYGPKVVR NEFTLGEECE LETMTGEKVK AVVKLEGDNK MVTTFKGIKS VTELNGDTIT NTMTLGDIVY KRVSKRI

包装清单：

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P7347-5μg	Recombinant Murine FABP1	5μg
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P7347-500μg	Recombinant Murine FABP1	500μg
—	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。
- 本产品在冻干时添加了海藻糖作为保护剂，此时冻干后本产品看起来仍然像是液体，属于正常现象。在冻干工艺上，海藻糖作为常用的冻干保护剂，可显著阻止蛋白质二级结构的改变，防止冻干过程中的蛋白变性。
- 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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