

Recombinant Human CMPK1 (His-Tag)

产品编号	产品名称	包装
P2523-10μg	Recombinant Human CMPK1 (His-Tag)	10μg
P2523-50μg	Recombinant Human CMPK1 (His-Tag)	50μg
P2523-200μg	Recombinant Human CMPK1 (His-Tag)	200μg
P2523-1mg	Recombinant Human CMPK1 (His-Tag)	1mg

产品简介:

Species	Gene ID	Accession	Source	Length	MW	Tag
Human	51727	P30085	<i>E. coli</i>	204aa	23kDa	N-His-Tag

蛋白信息(About this protein)	
名称(Name)	Recombinant Human CMPK1 (His-Tag); 重组人UMP-CMP激酶
别名(Synonyms)	CK; CMK; CMPK; UMK; UMPK; UMP-CMP kinase; Deoxycytidylate kinase; Nucleoside-diphosphate kinase; Uridine monophosphate/cytidine monophosphate kinase
产品简介 (Background)	Beyotime's Recombinant Human CMPK1 (His-Tag) was expressed in <i>E. coli</i> and purified, which contains the full length of human CMPK1 (Pro2-Gly196) with His-Tag fusion at the N-terminus. CMPK1, also known as UMP-CMP kinase is part of the nucleotide metabolism network, which is responsible for the synthesis and interconversion of nucleotides that are essential for cellular activities. This enzymatic activity is of importance in the de novo biosynthesis of pyrimidine nucleotides, representing a critical step in the synthesis of essential cellular components. During this process, CMPK1 preferentially selects uridine monophosphate (UMP) and cytidine monophosphate (CMP) as phosphate receptors. Additionally, CMPK1 exhibits extensive nucleoside diphosphate kinase activity, demonstrating its versatility in catalyzing the transfer of phosphate groups between different nucleoside diphosphates. The multifaceted functions of CMPK1 reveal its pivotal role in cellular nucleotide metabolism and its potential impact on various cellular processes [1-3].
产品用途 (Applications)	Study of nucleotide metabolism, enzymatic activity and cellular processes that rely on nucleotide biosynthesis.
外观 (Physical appearance)	Liquid
浓度(Concentration)	~1mg/ml
纯度(Purity)	≥95% by SDS-PAGE
储存液(Storage buffer)	10mM HEPES (pH7.4), 25mM KCl, 5mM DTT, 10% Glycerol.

➤ 本产品经SDS-PAGE电泳检测蛋白纯度和分子量请参考图1。

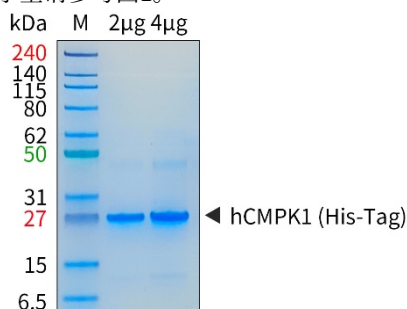


图1. 碧云天Recombinant Human CMPK1 (His-Tag) (P2523)的SDS-PAGE电泳检测效果图。本蛋白经BeyoGel™ Elite PAGE 预制胶(Bis-Tris, 4-15%, 10孔) (P0856)电泳, 上样缓冲液为BeyoGel™ LDS Sample Buffer (4X) (P0731), Marker为BeyoColor

™彩色预染蛋白分子量标准(6.5-270kD) (P0071/P0072)，并经BeyoBlue™考马斯亮蓝超快染色液(P0017F)染色。实际结果会因产品批次、实验条件、检测仪器等的不同而存在差异，图中效果仅供参考。

包装清单：

产品编号	产品名称	包装
P2523-10μg	rhCMPK1 (His-Tag) (1mg/ml)	10μl
P2523-50μg	rhCMPK1 (His-Tag) (1mg/ml)	50μl
P2523-200μg	rhCMPK1 (His-Tag) (1mg/ml)	200μl
P2523-1mg	rhCMPK1 (His-Tag) (1mg/ml)	1ml
—	说明书	1份

保存条件：

-20℃保存，一年有效。-80℃保存，可以保存更长时间。

注意事项：

- 由于蛋白的每次冻融均会引起部分失活，所以首次配制相应浓度的储存液后，须分装后-20℃或更低温度冻存，尽量避免反复冻融。
- 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。在打开管盖前，请适当离心，使附着在管盖或管壁上的蛋白聚集于管底。
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. Hsu CH, Liou JY, Dutschman GE, Cheng YC. Mol Pharmacol. 2005. 67(3):806-14.
2. Gerhard DS, Wagner L, Feingold EA, Shenmen CM, Grouse LH, et al. Genome Res. 2004. 14(10B):2121-7.
3. Segura-Peña D, Sekulic N, Ort S, Konrad M, Lavie A. J Biol Chem. 2004. 279(32):33882-9.

相关产品：

产品编号	产品名称	包装
P2520	Recombinant Active Human BACE1 (His-Tag)	10μg/100μg/1mg
P2523	Recombinant Human CMPK1 (His-Tag)	10μg/50μg/200μg/1mg

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