



碧云天生物技术/Beyotime Biotechnology
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Recombinant Human PDI

产品编号	产品名称	包装
P7010-100μg	Recombinant Human PDI	100μg
P7010-500μg	Recombinant Human PDI	500μg

产品简介:

Species	Gene ID	Accession	Source	Length	MW	Tag
Human	5034	P07237	<i>E. coli</i>	502aa	56.6kDa	—

About this protein	
Name	Recombinant Human PDI (Recombinant Human Protein Disulfide Isomerase; rHuPDI); 重组人蛋白质二硫键异构酶
Synonyms	DSI; ERBA2L; GIT; PDI; PDIA1; PO4DB; PO4HB; PROHB; Thbp; Cellular thyroid hormone-binding protein; collagen prolyl 4-hydroxylase beta; DSI; ERBA2L; GIT; glutathione-insulin transhydrogenase; P4Hbeta; p55; PDIA1procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), betapolypeptide (protein disulfide isomerase-associated 1); PDIEC 5.3.4.1; PHDB; PO4DB; PO4HB; procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta polypeptide; PROHB procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), betapolypeptide (protein disulfide isomerase; thyroid hormone binding protein p55); Prolyl 4-hydroxylase subunit beta; prolyl 4-hydroxylase, beta polypeptide; protein disulfide isomerase family A, member 1; protein disulfide isomerase/oxidoreductase; protein disulfide isomerase-associated 1; protein disulfide-isomerase; protocollagen hydroxylase; thyroid hormone-binding protein p55
Purity	>95% by SDS-PAGE and HPLC analyses.
Biological Activity	Thiol Protein Reductase Activity is 0.001 Δ650nm/ min-2, determined by measuring the turbidity increase at 650 nm due to insulin reduction. The activity is expressed as the ratio of the slope of a linear part of the turbidity curve to the lag time. Isomerase Activity is 0.5 μmol active RNase A min-1 μmol PDI-1, according to the re-activation of reduced and denatured RNase A.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH7.0.
Endotoxin	Less than 1EU/μg of rHuPDI 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	Enzymes
Background	Protein disulfide isomerases (PDIs) constitute a family of structurally related enzymes which catalyze disulfide bonds formation, reduction, or isomerization of newly synthesized proteins in the lumen of the endoplasmic reticulum (ER). They act also as chaperones, and are, therefore, part of a quality-control system for the correct folding of the proteins in the same subcellular compartment. PDI has been found to have moderate effects (25-fold) on the rate of oxidative folding of proteins in vitro. Recombinant Human Protein Disulfide Isomerase is involved in disulphide-bond formation and isomerization, as well as the reduction of disulphide bonds in proteins. Recombinant PDI has been found to have moderate effects (25-fold) on the rate of oxidative folding of proteins in vitro.
Amino Acid	MRGSGSHHHH HHAPEEEDHV LVLKSNFAE ALAAHKYLLV EFYAPWCGHC KALAPEYAKA

Sequence	AGKLLKAEVSE	IRLAKVDATE	ESDLAQYGV	RGYPTIKFFR	NGDTASPKEY	TAGREADDIV
	NWLKKRTGPA	ATTLPDGAAA	ESLVESSEVA	VIGFFKDVES	DSAKQFLQAA	EAIDDIPFGI
	TSNSDVFSKY	QLDKDGVVLF	KKFDEGRNMF	EGEVTKENLL	DFIKHNQLPL	VIEFTEQTAP
	KIFGGEIKTH	ILLFLPKSVS	DYDGKLSNFK	TAAESFKGKI	LFIFIDSHT	DNQRILEFFG
	LKKEECPAVR	LITLEEEMTK	YKPESEELTA	ERITEFCHRF	LEGKIKPHLM	SQELPEDWDK
	QPVKVLVGKN	FEDVAFDEKK	NVFVEFYAPW	CGHCKQLAPI	WDKLGETYKD	HENIVIAKMD
	STANEVEAVK	VHSFPTLKFF	PASADRTVID	YNGERTLDGF	KKFLES GGQD	GAGDDDDLED
	LEEAEPPDME	EDDDQKAVKD	EL			

包装清单:

产品编号	产品名称	包装
P7010-100µg	Recombinant Human PDI	100µg
P7010-500µg	Recombinant Human PDI	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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