



Level Biotechnology Inc.
進階生物科技股份有限公司

www.level.com.tw

Western Blot Tools

蛋白樣品製備



Protein Sample Preparation

蛋白樣品萃取 – 好的開始是成功的一半



PRO-PREP™ Protein Extraction Solution

#17081 / #17081.1

已預先混入 5 種 Protease Inhibitors，不需額外購買

(EDTA-free)



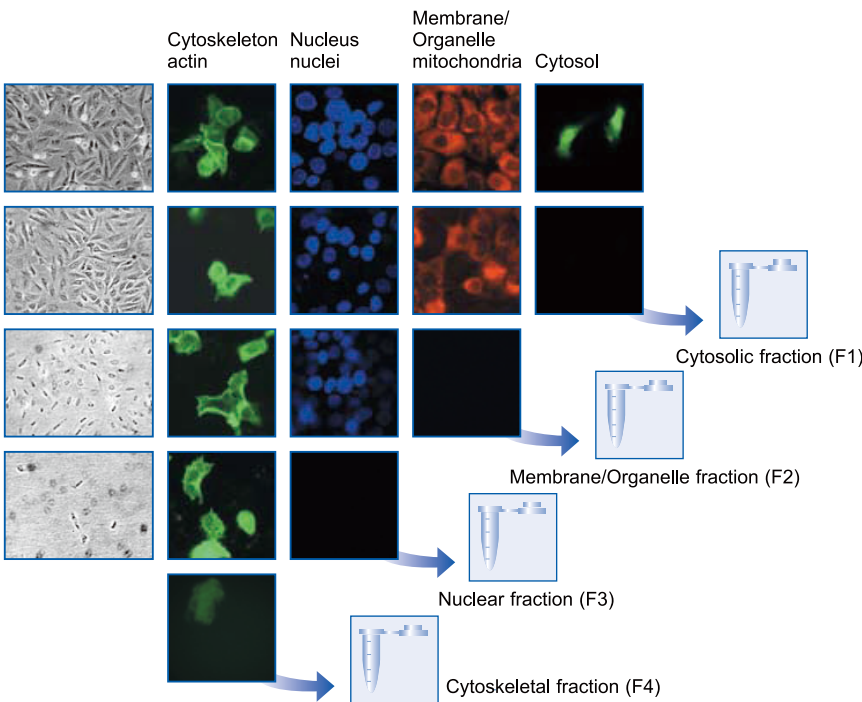
- **簡單**：直接加入，直接萃取，細胞組織皆適用
- **快速**：反應 20-30 分鐘，完成萃取
- **經濟**：已預先混入 5 種 Protease Inhibitors，不需額外購買
- **穩定**：萃取的蛋白質，可穩定於 -20°C 中，保存 6 個月
- **方便**：另有 EDTA-free 版本(附 EDTA 管可按需求添加)，適合各類型實驗
- **產量**：5 X 10⁶ 細胞，平均產量為 2 mg；10 mg 組織，平均產量為 8-9 mg



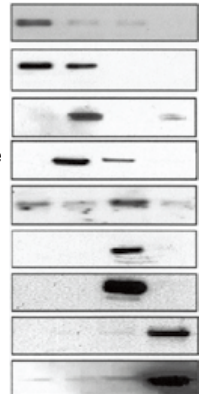
ProteoExtract® Subcellular Proteome Extraction Kit (S-PEK)

#539790-1KITCN

快速兩小時內從單一樣中分離表現在細胞中4種不同位置的蛋白質



Calpain
HSP 70
pan-Cadherin
Cytochrome P450 reductase
c-fos
c-jun
Histone 1
pan-Cytokeratin
Vimentin



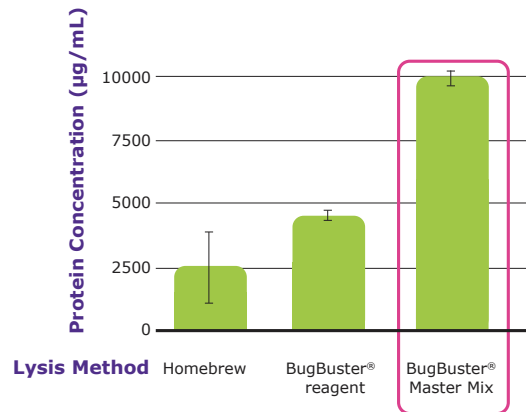
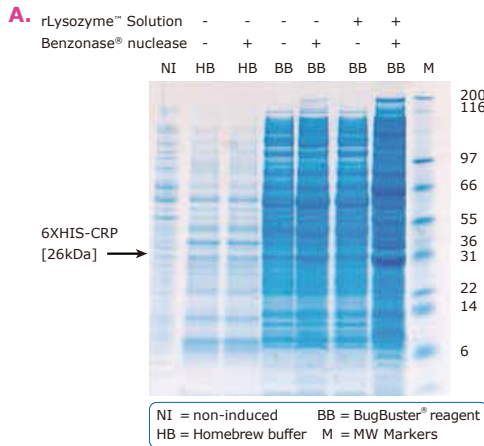
Immunoblots of selected marker proteins demonstrate separation efficiency greater than 80% for subcellular compartments of mammalian tissue culture cells. For detection of c-fos, the protein was immunoprecipitated before electrophoresis.
Fractions are as follows : **F1, cytosolic fraction; F2, membrane/organelle fraction; F3, soluble nuclear fraction; F4, cytoskeletal/nuclear matrix fraction.**

品號	品名	規格	應用
GER80648337	SAMPLE GRINDING KIT	50 samples	用於破碎小組織和細胞樣品以提取蛋白
INT17081	PRO-PREP™ Protein Extraction Solution	100ML	細胞、組織蛋白提取
INT17081.1	PRO-PREP™ Protein Extraction Solution	100ML	細胞、組織蛋白提取, (EDTA free)
MER20-188	RIPA Lysis Buffer, 10X (含10mM EDTA)	100ML	細胞蛋白提取
MER71009-4CN	CytoBuster™ Protein Extraction Reagent	250 ML	mammalian and insect cells fraction: Cytosolic Membrane/organelle
MER539790-1KITCN	ProteoExtract® Subcellular Proteome Extraction Kit	20 Extractions	protein, Nucleic, Cytoskeletal
MER444810-1KITCN	ProteoExtract® Native Membrane Protein Extraction Kit	20 Extractions	細胞、組織蛋白提取 (膜蛋白)
MER2900	Nuclear Extraction Kit	100 assays	細胞核蛋白萃取

BugBuster® Master Mix #71456-3CN - 100 ml / #71456-4CN - 500 ml

避免sonication高熱而破壞蛋白活性，簡單、快速萃取細菌中可溶性重組蛋白

- 結合了BugBuster Protein Extraction Reagent、Benzonase + Nuclease 與 rLysozyme，可從所有Gram(+)與 Gram(-)的細菌中萃取出高活性可溶性蛋白。
- 不需稀釋也不需增加任何步驟，同時利用Benzonase減少傳統方法中DNA or RNA所造成純化蛋白質的干擾。
- 通常每 50ml culture 需用2.5ml BugBuster Master Mix。1.5ml 以下小量培養時，加入1/5 培養體積的BugBuster Master Mix。



BugBuster® reagent is superior to “homebrew” lysis buffer and BugBuster® reagent with both Benzonase® nuclease and rLysozyme™ solution produced lysates with the highest 6XHIS-CRP yields. (A) E. coli lysates (5 µL of 1 mL total lysate) from various lysis protocols were fractionated and analyzed by SDS-PAGE. A band corresponding to 6XHIS-CRP is prominently visualized in the BB +/+ lane. (B) Cleared cell lysates (2 µL of 1 mL total) were spotted on assay cards and quantified using the Direct Detect® spectrometer. In each case, bars represent the average of 3 independent samples.

其他特色產品

CytoBuster™ reagent — Obtain protein extracts from mammalian and insect cells in their native state, in 5 minutes.

NucBuster™ reagent — Extract nuclear proteins in less than 30 minutes with a simple 2-step protocol.

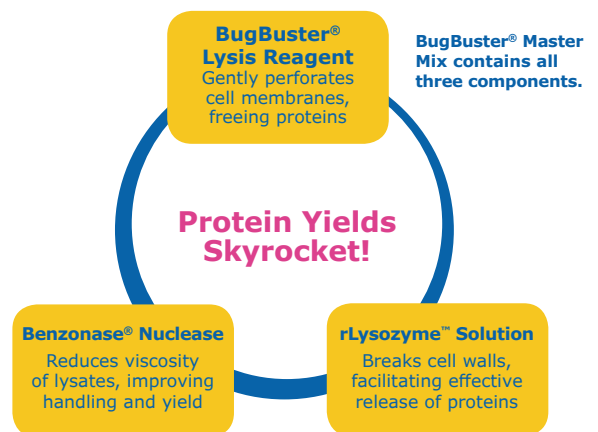
PhosphoSafe™ Extraction reagent — The PhosphoSafe™ Extraction Buffer is a detergent and phosphatase inhibitor mixture optimized for fast, efficient extraction of soluble proteins from mammalian and insect cells that preserves the phosphorylation state of sample proteins.

YeastBuster™ reagent — Extract proteins from yeast and plants without mechanical disruption or enzymatic lysis. The reagent has been tested with Saccharomyces cerevisiae, Pichia pastoris, P. stipidis, and Schizosaccharomyces pombe strains, and with plant cells.

Insect PopCulture® reagent — Insect PopCulture® Reagent is a detergent-based lysis reagent specifically formulated for extraction from total insect cell culture (in suspension or adherent) without the need for centrifugation.

Ordering Information

Application	Description	Catalog No.
Bacteria	BugBuster® Protein Extraction Reagent 70584	70584
	BugBuster® Master Mix 71456	71456
	BugBuster® Plus Benzonase® Nuclease 70750	70750
	BugBuster® Plus Lysonase™ Kit 71370	71370
	BugBuster® 10X Protein Extraction Reagent 70921	70921
	PopCulture® Reagent 71092	71092
Mammalian	CytoBuster™ Protein Extraction Reagent 71009	71009
	NucBuster™ Protein Extraction Reagent 71183	71183
	PhosphoSafe™ Extraction Reagent 71296	71296
Yeast	YeastBuster™ Protein Extraction Reagent 71186	71186
Insect	Insect PopCulture® Reagent 71187	71187



Protease & Phosphatase Inhibitor Cocktail

正確選用蛋白酶及磷酸酶抑制劑，保護蛋白樣品及提升樣品獲取量

MERCK

ReadyShield® Protease & Phosphatase Inhibitor Cocktail



- 已針對哺乳動物細胞和組織萃取物進行了優化和測試。它包含對絲氨酸、半胱氨酸、酸性蛋白酶、氨肽酶、鹼性磷酸酶的 L-同工酶和絲氨酸/蘇氨酸蛋白磷酸酶具有廣泛特異性的抑制劑。
- Ready-to-use，ReadyShield® 是一種非冷凍配方，儲存時不會凍結，使用方便快捷。
- 100 X solution

Description	Item Number
ReadyShield® Protease and Phosphatase Inhibitor Cocktail	PPC2020-5ML

Protease Inhibitor Cocktail Set III, EDTA-Free, 50X

#539134-1SETCN

- Ready-to-use，使用簡單
- 提供完整inhibitors及target protease資訊
- 適用多物種及多種特殊應用
- 溶於DMSO，活性穩定達1-2年
- 建議1:200開始測試，但經測試，1ml 約可用於 500 ml cell extract

Application	Description	Catalog No.
SIGMAFAST™ Tablets	SIGMAFAST™ Protease Inhibitor Tablets, For General Use	S8820
	SIGMAFAST™ Protease Inhibitor Cocktail Tablets, EDTA-Free, for use in purification of Histidine-tagged proteins	S8830
For General Use	Protease Inhibitor Cocktail, for general use, lyophilized powder	P2714
For Bacterial Extracts	Protease Inhibitor Cocktail, for use with bacterial cell extracts, lyophilized powder	P8465
For Mammalian Cell & Tissue Extracts	Protease Inhibitor Cocktail, for use with mammalian cell and tissue extracts, DMSO solution	P8340
For HIS-Tagged Proteins	Protease Inhibitor Cocktail, for use in purification of Histidine-tagged proteins, DMSO solution	P8849
For Tissue Culture	Protease Inhibitor Cocktail, for use in tissue culture media, DMSO solution	P1860
For Plant Extracts	Protease Inhibitor Cocktail, for plant cell and tissue extracts, DMSO solution	P9599
For Fungal & Yeast Extracts	Protease Inhibitor Cocktail, for use with fungal and yeast extracts, DMSO solution	P8215

Phosphatase Inhibitor Cocktail Set V, 50X

#524629-1SETCN

- Ready-to-use，使用簡單
- 提供完整inhibitors及target protease資訊
- Ser/Thr phosphatases, acid and alkaline phosphatases, Protein, tyrosine phosphatases (PTPs)
- 溶於DMSO，活性穩定達1-2年
- 建議1:50

Description	Recommended Application	Catalog No.
Phosphatase Inhibitor Cocktail Set I	Protection against alkaline phosphatases and Ser/Thr phosphatases such as PP1 and PP2A	524624
Phosphatase Inhibitor Cocktail Set II	Protection against acid and alkaline phosphatases and Protein Tyrosine Phosphatases (PTPs)	524625
Phosphatase Inhibitor Cocktail Set III	Protection against acid, alkaline and Ser/Thr phosphatases and Protein Tyrosine Phosphatases (PTPs)	524627
Phosphatase Inhibitor Cocktail Set IV	Protection against alkaline phosphatases and Ser/Thr phosphatases such as PP1 and PP2A	524628
PhosSTOP™ Phosphatase Inhibitor Tablets	Broad-spectrum blend of mammalian, plant, yeast, and bacterial phosphatase inhibitors	4906845001

蛋白純化 Dialysis & Desalting

品號	品名	規格	特點
80648375	Mini Dialysis Kit, 1 kDa cut-off 250µl	50 x Tubes	透析 250 µl 樣品體積
80648413	Mini Dialysis Kit, 8 kDa cut-off 250µl	50 x Tubes	透析 250 µl 樣品體積
80648394	Mini Dialysis Kit, 1 kDa cut-off 2ml	50 x Tubes	透析 2 ml 樣品體積
80648432	Mini Dialysis Kit, 8 kDa cut-off 2ml	50 x Tubes	透析 2 ml 樣品體積
17085101	PD-10 Desalting Column	30 columns	緩衝液置換 1-2.5 ml 樣品體積
28918007	PD MiniTrap G-25	50 columns	緩衝液置換 0.1-0.5 ml 樣品體積
28918004	PD SpinTrap G-25	50 columns	緩衝液置換 100-180 µl 樣品體積

蛋白濃度測定



SMART™ BCA Protein Assay Kit

#21071

高準確度



- 以二價銅離子還原呈色法進行蛋白質定量
- 比起Bradford assay嵌合法，對蛋白的偵測準確度更高
- 線性範圍涵蓋廣 (BSA: 20 ~ 2,000 µg/ml.)
- 對含離子或非離子性的detergent樣品 (SDS, Triton X-100) 較具有耐受性



QuantiPro™ BCA Assay Kit

#QPBCA-1KT

低濃度樣品測定



除了溶液中的蛋白質測定和定量外，QuantiPro™ BCA Assay Kit 還有其他應用，包括測定與瓊脂糖支持物共價結合的蛋白質和吸附在多孔板上的蛋白質。可用於在非常小的樣品體積中測量非常稀的蛋白質濃度。在試管試驗中準確測量 0.5 至 30 µg/mL 的蛋白質濃度，在 96 或 384 孔板試驗中準確測量 1 至 20 µg/mL 的蛋白質濃度。

品號	品名	規格	應用
71285-3CN	BCA Protein Assay Kit	500 assays	BCA蛋白定量套組
B6916-500ML	Bradford Assay	500 ML	Coomassie dye binding protein assay
P0834-10X1ML	Protein standard	10 X 1 ML	bovine, 2 mg protein/ml
P0914-5AMP	Protein standard	5 AMP	1 mg bovine serum albumin/ml
P0914-10AMP	Protein standard	10 AMP	1 mg bovine serum albumin/ml



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