

From Collection to Analysis



Understanding the Molecules of Life

Central to many processes of the human body, proteins hold the key to exciting developments and discoveries in research, medicine, pharmaceuticals, and biotechnology. Unlock the potential of proteins by supporting the critical steps of your workflow with products and expertise from the Fisher Scientific channel.



- **Express and Extract**
- Expression Kits and Vectors
- Extraction Reagents
- Cell Lysis Detergents
- Mechanical Homogenizers



- **Isolate and Purify**
- Magnetic Beads and Systems
- Dialysis Cassettes
- Ion Exchange Columns
- Purification Instruments



Western Blotting

- Protein Gels
- Molecular Weight Markers
- Membranes
- Substrates
- Gel Documentation and **Analysis Systems**

FLISA

- Microplates
- Substrates
- Kits
- Imaging Systems

Trademarks: 1-Step, Agilent, AlphaGuard, AlphaProTech, Amersham, ART, BioTek, Bolt, Calbiochem, Capto, Cytiva, CytoBuster, Dynabeads, ECL, Epoch, Expi293, ExpiCHO, EZ-Run, FastPrep-24, Fisher Bioreagents, Fisherbrand, Genlantis, Gibco, Greiner Bio-One, HandPRO, HiPrep, HisPur, HiTrap, Hourglass International, iBind, iBind, iBind, immobilion, InstantOne, Invitrogen, KingFisher, Magna ChIP, MembranePro, MilliporeSigma, MP Biomedicals, Novagen, Novex, NuPAGE, PageRuler, Pico, Pierce, PureProteome, Rainbow, Scion700, Sepharose, Slide-A-Lyzer, SoluLyse, Spectra, SuperSignal, Surfact-Amps, Syngene, Thermo Scientific, Triton, WedgeWell, YeastBuster

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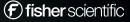
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Collect

Whether you're extracting protein from primary tissues, cells grown in culture, or cell-free systems, select from product options that meet a range of protein expression and extraction requirements.

Protein Expression Kits and Vectors

Achieve high protein yields for your downstream applications.

Description	Quantity	Cat. No.
Gibco Expression Kits		
Expi293 GnTI- Expression System Kit	Each	A39250
Expi293 Inducible Expression System Kit	Each	A39251
Expi293 Inducible GnTI- Expression System Kit	Each	A39252
Expi293 MembranePro Expression System Kit	Each	A25870
ExpiCHO Expression System Kit	Each	A29133
Thermo Scientific Vectors for Mammalian Cell-F	ree Protein Express	sion
pT7CFE1-Cftag	10 µg	TPPI88866
pT7CFE1-CGFP-HA-His	10 µg	TPPI88869
pT7CFE1-CHis	10 µg	TPPI88860





Thermo Scientific Detergent Solutions

Lyse cells, solubilize membrane proteins and lipids, control protein crystallization, and more.

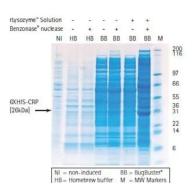
Description	Quantity	Cat. No.
ND 40 Curfoot Among	50 mL	PI85124
NP-40 Surfact-Amps	6 x 10 mL	PI28324



Protein Extraction Reagents

Efficiently extract proteins from cells and tissues.

Description	Quantity	Cat. No.
Genlantis SoluLyse Bacterial	125 mL	L100125
	500 mL	L100500
MilliporeSigma Novagen CytoBuster	250 mL	710094MI
	50 mL	710093MI
MilliporeSigma Novagen YeastBuster Kit	Each	711864



MilliporeSigma Master Mixes

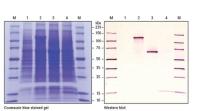
Recover active soluble protein from bacterial and other samples.

Description	Quantity	Cat. No.
Novagen BugBuster	100 mL	714563

Lysis Buffers

Recover membrane components under mild and non-denaturing conditions.

Description	Quantity	Cat. No.
Thermo Scientific Chemicals Triton X-100, pH 7.4	250 mL	AAJ62289AK
Thermo Scientific, pH 8.0	500 mL	AAJ63892AP



Lane Sample
M Perfect Protein** Markers (staine
Western Markers (blot)
1 Mock transfection
2 S*lag B-galactosidase
3 S*lag firely koliferase

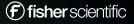
alysis of S=Tag* Fusion Proteins Extracted with CytoBuster* Reagent
5.1 cells were transfected with a pRiED* vector exceeding the indicated 5-Tag* fusion proteins using Genel
General Commission Engagest, Arter 64 his her cells were treated with CytoBuster Protein Extraction Reagent and equal
umes analyzed by Commanie stated SSS-RAGE (left panel) and Western biola (right panel). The 5-Tag fusion
tities were detected on the Western biol virgin the 5-species for Comingate and MIRIOPAP anybusters. His

Bead Homogenizers

Effectively and efficiently grind, lyse, and homogenize samples for RNA and DNA protein extractions.

Description Description	Cat. No.
1P Biomedicals FastPrep-24 Classic Instrument	MP116004500
IP Biomedicals FastPrep-24 5G Instrument	11-600-5500
isherbrand Bead Mill 24 Homogenizer	15-340-163
isherbrand Bead Mill 4 Mini Homogenizer	15-340-164





Process

Choose from a variety of magnetic beads, columns, dialysis tools, and more to support your protein isolation, purification, and separation.

MilliporeSigma Magnetic Beads and Systems

Purify biotinylated molecules with reduced mechanical stress and less handling time.

Description	Quantity	Cat. No.
Magna ChIP Protein AG	1 mL	16-663
PureProteome Protein A Magnetic Bead System	2 x 1 mL	LSKMAGA02
	10 mL	LSKMAGA10
PureProteome Protein G Magnetic Bead System	2 x 1 mL	LSKMAGG02



Magnetic Beads

Explore a variety of coated magnetic beads for purifying antibodies from cell culture supernatant, ascites, serum, and crude extracts and lysates.

Description	Quantity	Cat. No.
Cytiva His Mag Sepharose Ni	5 x 1 mL	45-002-515
Thermo Scientific HisPur Ni-NTA	10 mL	PI88832
Thermo Scientific Pierce Protein A MagBeads, Alkali Stable	5 mL	PIA53036
MilliporeSigma PureProteome Protein G Bead System	10 mL	LSKMAGG10
	2 x 1 mL	LSKMAGG02



Purification Instruments

Perform reproducible nucleic acid purification, proteomics, and cell isolation with minimal hands-on time.

Description	Cat. No.
Thermo Scientific KingFisher Duo Prime Purification System	14-387-700



Invitrogen Dynabeads Magnetic Beads

Perform immunoprecipitations without the need for pre-treatment, columns, slurries, or centrifugation.

Description	Quantity	Cat. No.
Protein A for Immunoprecipitation	5 mL	10-002-D
Protein G for Immunoprecipitation	5 mL	10-004-D
Antibody Coupling Kit	Each	14-311-D



Cytiva Protein Purification Ion Exchange Columns

Select from multiple preparatory and purification column options designed to help determine selectivity, binding, and elution conditions or perform small-scale purifications.

Description	Quantity	Cat. No.
HiPrep Heparin Fast Flow 16/10	1 x 20 mL	45-002-075
HiPrep Q Fast Flow 16/10	20 mL	45-002-071
HiPrep Q HP 16/10	20 mL	45-000-555
HiPrep Q XL 16/10	20 mL	45-002-068
HiTrap Capto Q ImpRes IEX	5 x 1 mL, 5/Pack	45-002-520
HiTrap CM Sepharose Fast Flow IEX	5 x 5 mL, 5/Pack	45-000-292
HiTrap DEAE Sepharose Fast Flow IEX	5 x 5 mL, 5/Pack	45-000-291
HiTrap IEX SP Sepharose HP Prepacked	5 x 5 mL, 5/Pack	45-002-192
HiTrap IEX Q Sepharose HP Prepacked	5 x 5 mL, 5/Pack	45-000-194
HiTrap Q Sepharose Fast Flow IEX	5 x 5 mL, 5/Pack	45-000-293
HiTrap Q Sepharose XL IEX	5 x 5 mL, 5/Pack	45-000-296
HiTrap SP Sepharose Fast Flow IEX	5 x 5 mL, 5/Pack	45-000-294
HiTrap SP Sepharose XL IEX	5 x 5 mL, 5/Pack	45-000-298



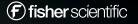


Thermo Scientific Slide-A-Lyzer G3 Dialysis Cassettes

These single-use dialysis devices offer an easy-to-use and secure alternative to traditional dialysis tubing—no more knots or clips.

Description	Capacity	Cat. No.
10K MWCO	30 mL	PIA52973
2K MWCO	3 mL	PIA52961
Irradiated 10K MWCO	15 mL	PIA52982
3.5K MWCO	70 mL	PIA52969





Analyze

Quantify the protein in your samples and perform subsequent analysis using western blotting and ELISA techniques. We offer gels, markers, membranes, microplates, substrates, kits, and more.

Western Blotting Products

Invitrogen Mini Protein Gels

Use these pre-cast polyacrylamide gels for reliable and consistent performance and reproducibility.

Description	Wells	Gel Thickness	Cat. No.
NuPAGE 4 to 12%, Bis-Tris, 1.0 to 1.5 mm	10	1.0 mm	NP0321BOX
Bolt 4 to 12%, Bis-Tris	10	1.0 mm	NW04120BOX
Novex WedgeWell 4 to 20%, Tris-Glycine	10	1.0 mm	XP04200BOX





Molecular Weight Markers for Protein Separations

Choose from a variety of stained and unstained markers and ladders in your choice of molecular weight ranges.

Description	Quantity	Cat. No.
Cytiva Rainbow Molecular Weight Markers (2 mg/mL)	250 µL	45-001-591
Fisher Bioreagents EZ-Run Prestained Rec Protein Ladder	2 x 500 μL	BP36031
Thermo Scientific PageRuler Plus Prestained Protein Ladder, 10 to 250 kDa	10 x 250 μL	PI26620
Thermo Scientific PageRuler Prestained Protein	2 x 250 μL	PI26616
Ladder, 10 to 180 kDa	10 x 250 μL	PI26617
Thermo Scientific PageRuler Unstained Broad Range Protein Ladder	2 x 250 μL	PI26630
Thermo Scientific Spectra Multicolor Broad Range Protein Ladder	10 x 250 μL	PI26623



Invitrogen Western Blotting Equipment

Capture and analyze protein and DNA gels and other chemiluminescent and fluorescent blots.

Description	Cat. No.
Bolt Welcome Pack + iBlot 2 System	NW0412AIB2
iBind Western Starter Kit, Fluorescent Detection	SLF1002S



Reagent and Substrate Kits

Use these packages to detect proteins across a variety of analytical western blot processes.

Description	Quantity	Cat. No.
Cytiva Amersham ECL Prime Western Blotting Detection Reagent Kit	1,000 cm² Membrane	45-002-401
	3,000 cm ² Membrane	45-010-090
Thermo Scientific SuperSignal West Femto Maximum Sensitivity Substrate Kit	2,000 cm ² Membrane	PI-34096
MilliporeSigma Immobilon Western Chemiluminescent	500 cm² Membrane	WBKLS0050
HRP Substrate Kit (ECL)	5,000 cm ² Membrane	WBKLS0500



Invitrogen Western Blotting Welcome Packs

Packs include a mini gel tank, plus gels, buffers, and standards for protein electrophoresis.

Product Name	Wells	Cat. No.
Bolt Bis-Tris Plus Mini Gel, 4 to 12%	10	NW0412A

protein news

Syngene Gel Documentation and Analysis Systems

Rapidly and accurately image and analyze fluorescence and visible gels, multiplexed fluorescent westerns, stain-free gels, and chemiluminescent blots.

Description	Lens	Cat. No.
G:BOX Chemi XX6, 6MP	F0.95	01-257-167
	F0.8	01-257-169
G:BOX Chemi XX9, 9.1 MP	F0.95	01-257-171
	F0.8	01-257-172



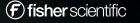
MilliporeSigma Western Blotting Membranes

Find membranes compatible with fluorescent, chemifluorescent, chromogenic, and chemiluminescent detection protocols.

Description	Format	Dimension	Cat. No.
Immobilon-NC Transfer	Roll	33 cm x 3 m	HATF00010
Immobilon-FL PVDF	Sheet	10 x 10 cm	IPFL10100
	Sheet	20 x 20 cm	IPFL20200
Immobilon-P PVDF	Sheet	9 x 12 cm	IPVH09120
	Sheet	10 x 10 cm	IPVH10100



Visit **fishersci.ca/primary-west** to shop over 85,000 primary antibodies and **fishersci.ca/secondary-west** to shop over 900 secondary antibodies.



Analyze

ELISA Products

Microplates

Choose from multiple microplate options for performing ELISA, agglutination, and other manual and automated assays.

Description	Plate Color	Well Bottom	Cat. No.
Fisherbrand High-Binding 96-Well Plates	Clear	Flat	21-377-203
Fisherbrand Untreated 96-Well Polystyrene Plates	Clear	Flat	12-565-501
Fisherbrand Untreated 384-Well Polystyrene Plates	Clear	Flat	12-565-506
Greiner Bio-One High-Throughput 96-Well Solid Bottomed Microplates	Clear	Flat	07-000-125





Thermo Scientific Substrates

Optimize luminometer-based and horseradish peroxidase detection ELISA assays.

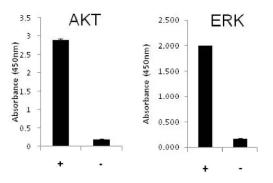
Description	Quantity	Cat. No.
SuperSignal ELISA Pico Chemiluminescent Substrate Kit	250 mL	PI37069
1-Step TMB ELISA Substrate Solutions	250 mL	PI34028

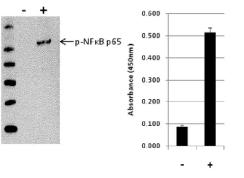


Invitrogen ELISA Kits

High-quality, optimized kits allow you to measure target-specific proteins with confidence, reliability, and consistency.

Description	Quantity	Cat. No.
AKT (Total/Phospho) Multispecies InstantOne Kit	96 Tests	501129232
AKT (Phospho) [pS473] Multispecies InstantOne Kit	96 Tests	50246243
AKT/ERK Activation Multispecies InstantOne Kit	96 Tests	50246233
100004 (0.111) 11	96 Tests	5017871
ICAM-1 (Soluble) Human Kit	10 x 96 Tests	5017894
ERK1/ERK2 (Total/Phospho) Multispecies InstantOne Kit	96 Tests	50246232
NFkB p65 (Phospho) [pS536] Human InstantOne Kit	96 Tests	50246258





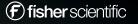
Agilent BioTek ELISA Imaging Systems

Measure UV-Vis absorbance in 6- to 384-well microplates, cuvets, and in microvolume samples.

Description	Cat. No.
Epoch 2 Microplate Spectrophotometer	BTEPOCH2TSC



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Protein Research Essentials

Depend on our extensive product offering to support your protein sample prep and assays.



Description	Quantity	Cat. No.
MilliporeSigma Calbiochem Protease Inhibitor Cocktail Set III, Animal-Free	1 Set	53-514-01SET
	1 mL	5351401ML
MilliporeSigma Calbiochem Protease Inhibitor Cocktail Set III, EDTA-Free	1 Set	53-913-41SET
	1 mL	53-913-41ML
Cytiva Protease Inhibitor Mix	1 mL	45-001-740



Thermo Scientific Total Protein Assays and Standards

Quantity	Cat. No.
10 x 1 mL	PI23209
25 mL	PI23224
1 L	PI23223
500 mL	PI23228
500 mL	PI23227
1 L	PI23225
750 mL	PI22660
	10 x 1 mL 25 mL 1 L 500 mL 1 L





Thermo Scientific Pipette Tips for Gel Loading

Description	Quantity	Cat. No.
ART Filtered Tips	20 μL	21-236-20
	100 μL	21-236-9
ART Non-Filtered Gel 200 Universal-Fit Pipette Tips, Tip Width: 0.4 mm	200 µL	21-236-74
ART Non-Filtered Gel 200 Universal-Fit Pipette Tips, Tip Width: 0.6 mm	200 µL	21-402-174



Thermo Scientific ELISA Pipette Tips

Description	Quantity	Cat. No.
ART Barrier Tips, Standard, Reload System	10 μL	13-811-100
	20 µL	13-811-114
	200 µL	13-811-124
	300 µL	13-811-141
ART Barrier Tips, Extended Length, Reload System	1,000 µL	13-811-154
ART Non-Filtered Tips, Reload System	10 μL	13-811-106
	20 µL	13-811-121
	200 µL	13-811-131
	1,000 µL	13-811-161



Hourglass International Gloves

Description	Size	Cat. No.
HandPRO Scion700 Nitrile Exam Gloves	X-Small	17-900-912
	Small	17-900-913
	Medium	17-900-914
	Large	17-900-915
	X-Large	17-900-916



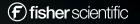
AlphaProTech Lab Coats

Description	Color	Cuff Style	Size	Cat. No.
AlphaGuard Lab Coats	White	Knit	Large*	19-130-1466C
	White	Elastic	Large*	19-130-1467C
	Blue	Knit	Large*	19-130-4254
	White	Knit	X-Large*	19-130-1466D
	White	Elastic	X-Large*	19-130-1467D
	Blue	Knit	X-Large*	19-130-4255



^{*}Other sizes available





Related

Applications and Resources

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Notes

