

Bring your biomarkers to life with steadfast assay consistency.

- ELISAs
- RIAs
- NEW! GyroMark™ HT assays
for the Gyrolab® workstation

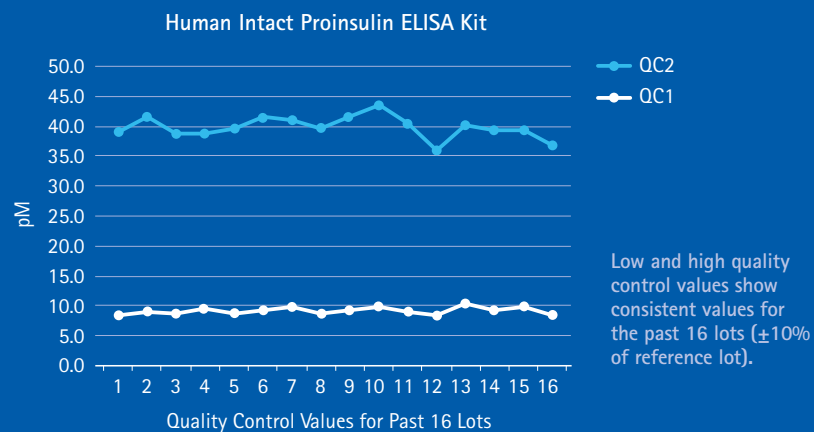




Balance your assay variability with our single-protein analysis solutions.

Measuring protein biomarkers? Merck Millipore's ELISAs and GyroMark™ HT assays are unique. Unlike other kits that leave you on your own to establish reproducibility, our kits provide:

- Standards validated to match reference lots
- Serum matrix for generating standard curves that accurately simulate conditions of native analyte conditions in serum or plasma
- In-assay controls



Choose the platform that meets your needs with Merck Millipore's

- GyroMark™ HT kits
- ELISA kits
- RIA kits

World Health Organization standards are available and used for final quality control testing.

Metabolic/Endocrine ELISAs

Get a complete picture of metabolism and endocrinology with sensitive, specific and reliable quantitation of circulating biomarkers. Our broad range of ELISA kits can help elucidate therapeutic mechanisms of action, establish early diagnosis of disease, predict toxicity, and more, particularly for studies of metabolic disease.

ELISAs for Circulating Metabolism and Endocrine Biomarkers

Description	Species	Standard Curve Range	Sensitivity	Sample Volume	Catalog No.	Bulk Packaging Catalog No.*
Adiponectin	Human	1.56–200 ng/mL	0.2 ng/mL	10 µL	EZHADP-61K	EZHADP-61BK
Adiponectin	Mouse	1–50 ng/mL	0.2 ng/mL	10 µL	EZMADP-60K	EZMADP-60BK
Adiponectin	Rat	3.125–200 ng/mL	0.4 ng/mL	10 µL	EZRADP-62K	
Amylin (active)	Human	1–100 pM	0.7 pM	50 µL	EZHA-52K	EZHA-52BK
Amylin (total)	Human	1–100 pM	0.6 pM	50 µL	EZHAT-51K	
APO AIV	Human	.078–5 µg/mL	0.02 µg/mL	5 µL	EZHAPOA4-73K	
β Trophin	Human					Coming Soon!
C-Peptide	Human	0.2–20 ng/mL	0.05 ng/mL	10 µL	EZHCP-20K	EZHCP-20BK
C-Peptide	Canine					Coming Soon!
C-Peptide 2	Mouse, Rat	25–1600 pM	15.0 pM	20 µL	EZRMCP2-21K	
Chemerin	Human	1.56–100 ng/mL	0.5 ng/mL	50 µL	EZHCMRN-57K	
FGF-21	Human	31.25–2000 pg/mL	10.0 pg/mL	50 µL	EZHFGF21-19K	
FGF-21	Mouse, Rat	49.4–12,000 pg/mL	10.0 pg/mL	10 µL	EZRMFGF21-26K	
FGF-23	Human	9.9–2400 pg/mL	3.5 pg/mL	50 µL	EZHFGF23-32K	EZHFGF23-32BK
FGF-23	Mouse	0.137 – 100 ng/mL	0.69 pg/mL	20 µL	EZMFGF23-43K	
FGF-23	Rat	0.082–20 ng/mL	0.05 ng/mL	50 µL	EZRFGF23-42K	EZRFGF23-42BK
Ghrelin (active)	Human	25–2000 pg/mL	15.0 pg/mL	20 µL	EZGRA-88K	EZGRA-88BK
Ghrelin (active)	Mouse, Rat	25–2000 pg/mL	8.0 pg/mL	20 µL	EZRGRA-90K	
Ghrelin (total)	Human	100–5000 pg/mL	50.0 pg/mL	20 µL	EZGRT-89K	EZGRT-89BK
Ghrelin (total)	Mouse, Rat	0.1–10 ng/mL	0.04 ng/mL	20 µL	EZRGRT-91K	
GIP (total)	Human	8.2–2000 pg/mL	4.2 pg/mL	20 µL	EZHGIP-54K	EZHGIP-54BK
GIP (total)	Mouse, Rat	8.2–2000 pg/mL	4.2 pg/mL	10 µL	EZRMGIP-55K	EZRMGIP-55BK
GLP-1 (active)	Multi-species	2–100 pM	1.0 pM	100 µL	EGLP-35K •	EGLP-35BK
GLP-1 High Sensitivity (active) Δ	Multi-species	See data sheet	0.14 pM	50 µL	EZGLPHS-35K ••	EZGLPHS-35BK
GLP-1 (total)	Multi-species	4.1–1000 pM	1.0 pM	20–50 µL	EZGLP1T-36K	EZGLP1T-36BK
GLP-2	Multi-species	1–64 ng/mL	0.3 ng/mL	50 µL	EZGLP2-37K	

* Bulk packaging now available on select kits – more environmentally friendly and saves space (10 kit equivalent).

• Please consider using the GLP-1 High Sensitivity Assay, EZGLPHS-35K

•• Preferred assay for measuring GLP-1 (active)

Δ Chemiluminescent assay

ELISAs for Circulating Metabolism and Endocrine Biomarkers (continued)

	Description	Species	Standard Curve Range	Sensitivity	Sample Volume	Catalog No.	Bulk Packaging Catalogue No*
WHO	Glucagon Δ	Human, Mouse, Rat	0.02-2 ng/mL	0.003 ng/mL	150-300 μ L	EZGLU-30K	EZGLU-30BK
	Growth Hormone	Mouse, Rat	0.7-50 ng/mL	0.07 ng/mL	10 μ L	EZRMGH-45K	EZRMGH-45BK
WHO	Insulin	Human	2-200 μ U/mL	1.0 μ U/mL	20 μ L	EZHI-14K	EZHI-14BK
	Insulin	Rat, Mouse	0.2-10 ng/mL	0.1 ng/mL	10 μ L	EZRMI-13K	EZRMI-13BK
	Insulin (Animal serum free)	Human	2-200 μ U/mL	0.85 μ U/m	20 μ L	EZHIASF-14K	
	Leptin	Canine	0.78-50 ng/mL	0.21 ng/mL	20 μ L	EZCL-31K	
	Leptin	Mouse	0.2-30 ng/mL	0.05 ng/mL	10 μ L	EZML-82K	EZML-82BK
	Leptin	Rat	0.2-30 ng/mL	0.08 ng/mL	10 μ L	EZRL-83K	EZRL-83BK
WHO	Leptin "Dual Range"	Human	0.5-100 ng/mL	0.2 ng/mL	25 μ L	EZHL-80SK	EZHL-80BK
	Omentin-1	Human	2-200 ng/mL	0.23 ng/mL	20 μ L	EZHOMNTN1-29K	
	Pancreatic Polypeptide	Human	12.6-3000 pg/mL	12.3 pg/mL	50 μ L	EZHPP-40K	EZHPP-40BK
	Procollagen Type IIA N-Propeptide (PIIAP)	Human	lot dependent	30.0 ng/mL	5 μ L	EZPIIANP-53K	
WHO	Proinsulin (intact)	Human	0.5-100 pM	0.2 pM	50 μ L	EZHIPI-17K	
WHO	Proinsulin (total)	Human	2-200 pM	0.5 pM	20 μ L	EZHPI-15K	EZHPI-15BK
	PYY (total)	Human	10-2000 pg/mL	6.5 pg/mL	20 μ L	EZHPYYT-66K	EZHPYYT-66BK
	RBP4	Human	0.14-100 ng/mL	0.07 ng/mL	10 μ L	EZHRBP4-18K	
	Resistin	Human	0.16-5 ng/mL	0.02 ng/mL	20 μ L	EZHR-95K	EZHR-95BK
	SAA-3	Mouse	0.078-5 μ g/mL	0.078 μ g/mL	10 μ L	EZMSAA3-12K	

[WHO](#) Standard values matched to the World Health Organization guidelines.

* Bulk packaging now available on select kits – more environmentally friendly and saves space (10 kit equivalent).

Δ Chemiluminescent assay



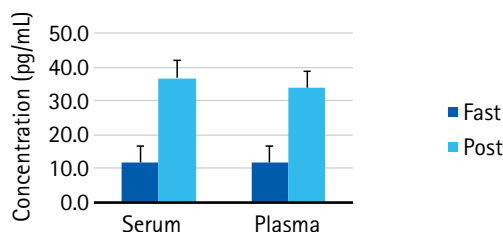
NEW GLP-1 Assay and Comparison Data

GLP-1 assays optimized for the Gyrolab™ platform compare favorably to Mesoscale Discovery (MSD) assays for GLP-1.

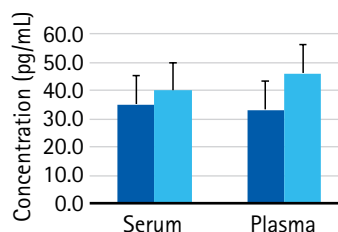
Download Application Note at:

www.merckmillipore.gyromark

GyroMark™ HT GLP-1 Active
Fast vs. Post (n=9)

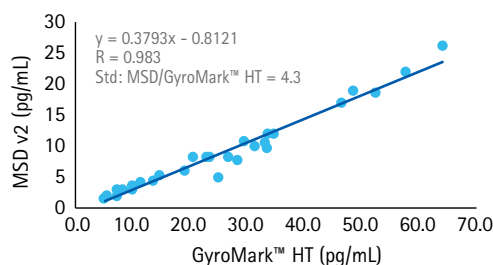


MSD GLP-1 Active (7-36) amide
Fast vs. Post (n=9)



GLP-1 levels in fasting and postprandial subjects compared using the GyroMark™ HT Active GLP-1 Assay and the MSD Active GLP-1 (7-36) Amide Kit. The MSD GLP-1 Active (7-36) Amide Kit showed a less significant difference in active GLP-1 levels between the two experimental conditions.

GLP-1 Active GyroMark™ HT
vs. MSD (v2) (n=32)



Active GLP-1 measured in 32 samples, using either the MSD Active GLP-1 (ver. 2) assay or the GyroMark™ HT Active GLP-1 assay.



Download our featured white paper!

Good Correlation Between Measured Cytokine Levels Using Multiplexed Bead-based Detection and ELISA Platforms.

Reference "Lit. No. AN4323EN00" when searching online at:
www.merckmillipore.com

Cytokine / Chemokine ELISA Kits

Cytokines are soluble proteins and peptides that modulate activities of cells and tissues, under both normal and pathological conditions. Merck Millipore's high-quality, cost-effective cytokine/chemokine ELISAs provide consistent and reliable measurements for your studies of inflammation, immune response, metabolism, neurological disorders and more.

ELISAs for Circulating Cytokines

Description	Species	Catalog No.	Description	Species	Catalog No.
CRP	Human	CYT298	IL-8	Human	EZHIL8
CRP	Rat	CYT294	IL-10	Human	EZHIL10
IFN- γ	Human	EZHIFNG	IL-10	Mouse	EZMIL10
IFN- γ	Mouse	EZMIFNG	IL-12(p70)	Human	EZHIL12
IL-1 β	Human	EZHIL1B	IL-13	Human	EZHIL13
IL-2	Human	EZHIL2	IL-15	Human	EZHIL15
IL-2	Mouse	EZMIL2	IL-17A	Rat	EZRIL17A
IL-4	Human	EZHIL4	IL-17F	Mouse	EZMIL17F
IL-4	Mouse	EZMIL4	TNF- α	Human	EZHTNFA
IL-6	Human	EZHIL6	TNF- α	Mouse	EZMTNFA
IL-6	Mouse	EZMIL6	TNF- α	Rat	EZRTNFA
IL-6	Rat	EZRIL6			

Neuroscience: Neuropeptide & Neurodegenerative ELISA Kits

Get a complete picture of the complex, interconnected nervous system functions and dysfunctions with reliable quantification of biomarkers. Trust Merck Millipore's neuropeptide and neurodegenerative ELISA kits to precisely quantify soluble biomarkers in sera and lysates.

Neuroscience

Description	Species	Standard Curve Range	Sensitivity	Sample Volume	Catalog No.
α -Synuclein	Human, Mouse, Rat	3–60 ng/mL	3 ng/mL	100 μ L	NS400
Amyloid β , 1–40	Human	16–500 pg/mL	4 pg/mL	50 μ L	EZHS40
Amyloid β , 1–42	Human	16–500 pg/mL	5 pg/mL	50 μ L	EZHS42
Amyloid β , Set	Human	Contains 1 each of EZHS40 and EZHS42			EZHS-SET
Amyloid β (Brain), 1–40	Human	16–500 pg/mL	4 pg/mL	50 μ L	EZBRAIN40
Amyloid β (Brain), 1–42	Human	16–500 pg/mL	5 pg/mL	50 μ L	EZBRAIN42
Amyloid β (Brain), Set	Human	Contains 1 each of EZBRAIN40 and EZBRAIN42			EZBRAIN-SET
BDNF (Brain-Derived Neurotrophic Factor)	Human, Rat	7.8–500 pg/mL	7.8 pg/mL	50 μ L	CYT306
GFAP (Glial Fibrillary Acidic Protein)	Human, Mouse, Rat	1.5–100 ng/mL	1.5 ng/mL	100 μ L	NS830
NGF (Nerve Growth Factor)	Mouse, Rat	10–1000 pg/mL	10–15 pg/mL	50 μ L	CYT304
NPY (Neuropeptide Y)	Human	5–1000 pg/mL	2 pg/mL	50 μ L	EZHNPY-25K
NPY (Neuropeptide Y)	Mouse, Rat	0.01–2 ng/mL	0.004 ng/mL	20 μ L	EZRMNPY-27K
PEDF (Pigment Epithelium-Derived Factor)	Human	0.9–62.5 ng/mL	0.9 ng/mL	50 μ L	CYT420
Phosphorylated Neurofilament, (pNF-H) Sandwich	Multi-species	0.0293–15 ng/mL	0.0585 ng/mL	1–10 μ L	NS170
S100B	Human	2.7–2000 pg/mL	1.3 pg/mL	50 μ L	EZHS100B-33K

Visualize and quantify neuroscience with validated neural marker antibodies.

By integrating the antibody expertise and resources of Calbiochem®, Chemicon®, Upstate®, and Linco®, Merck Millipore is now the leading provider of neuroscience antibodies for the central and peripheral nervous systems. Drive your neuroscience research forward with our vast portfolio of pathway-, cell type-, and state-specific antibodies and neurological disease assays and markers.

www.merckmillipore.com/antibodies

Cell Signaling ELISAs

STAR (Signal Transduction Assay Reaction) ELISA kits are a fast, sensitive method to for measuring relative levels of total and phosphorylated signaling proteins with phospho-specific antibodies. Easily quantitate the phosphorylation states of key signaling proteins, second messengers transmitting intracellular signals and apoptosis pathway proteins using these kits in less than five hours with minimal hands-on time.

STAR ELISAs

Description	Catalog No.
cAMP HTS (5X)	17-518
cAMP HTS	17-418
ERK 1/2	17-463
Phospho-Akt (Ser473)	17-457
Phospho-EGFR (Tyr1173)	17-461
Phospho-ERK1/2 (T183/Y187)	17-464
Phospho-I κ B (Ser32)	17-486

Extracellular Matrix (ECM)

Gain deeper insights into cell adhesion, migration, differentiation, invasion and survival by quantitating circulating ECM proteins using our sensitive, specific and reliable ECM ELISA kits.

ECMs

Description	Species	Catalog No.
Quantimatrix Fibronectin	Human	ECM300
Quantimatrix Laminin	Human	ECM310
E-Selectin	Human	ECM330
ICAM-1	Human	ECM335
VCAM-1	Human	ECM340
SCD26	Human	ECM345
MMP-2	Human	ECM492
MMP-9	Human	ECM494
TIMP-1	Human	ECM496
TIMP-2	Human	ECM498



Radioimmunoassays (RIAs)

RIAs have long been considered a valuable, economical and accurate way to measure protein concentration. However, as many researchers move away from using radioactive material, we would like to recommend that you consider using our ELISA or MILLIPLEX® MAP kits for your research needs.

RIAs

Description	Species	Standard Curve Range	Sensitivity	Sample Volume	Catalog No.
Adiponectin	Human	lot dependent	1 ng/mL	5 µL	HADP-61HK
C-Peptide	Human	0.1–5 ng/mL	0.1 ng/mL	50 µL	HCP-20K
Ghrelin (active)	Human	lot dependent	7.8 pg/mL	50 µL	GHRA-88HK
Ghrelin (total)	Human	lot dependent	93 pg/mL	50 µL	GHRT-89HK
GLP-1 (active)	Multi-species	10–500 pM	3 pM	300 µL	GLP1A-35HK
GLP-1 (total)	Multi-species	10–1000 pM	3 pM	300 µL	GLP1T-36HK
Glucagon	Multi-species	20–400 pg/mL	20 pg/mL	50 µL	GL-32K
Insulin	Porcine	2–200 µU/mL	2 µU/mL	50 µL	PI-12K
Insulin	Rat	0.1–10 ng/mL	0.1 ng/mL	50 µL	RI-13K
Insulin LisPro	Multi-species	2.5–250 µU/mL	2.5 µU/mL	100 µL	LPI-16K
Insulin (sensitive)	Rat	0.02–1 ng/mL	0.02 ng/mL	50 µL	SRI-13K
Insulin Specific	Human	2–200 µU/mL	2 µU/mL	50 µL	HI-14K
Leptin	Human	0.5–100 ng/mL	0.5 ng/mL	50–100 µL	HL-81K
Leptin	Multi-species	1–50 ng/mL	1 ng/mL	50 µL	XL-85K
Leptin (sensitive)	Human	0.05–10 ng/mL	0.05 ng/mL	50 µL	SHL-81K
Proinsulin	Human	2–100 pM	2 pM	100–200 µL	HPI-15K
PYY	Mouse, Rat	lot dependent	15.6 pg/mL (78.1 pg/mL)	100 µL (20 µL)	RMPYY-68HK
PYY (3–36)	Human	lot dependent	20 pg/mL	<100 µL	PYY-67HK
PYY (total)	Human	lot dependent	10 pg/mL	<100 µL	PYYT-66HK



What do your ELISA data really mean?

Get more biological information out of your ELISAs with the new MILLIPLEX® Analyst 5.1 software.

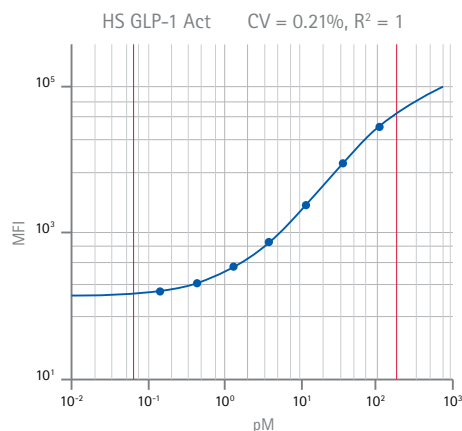
More than merely reporting protein concentrations, MILLIPLEX® Analyst 5.1 software provides you with a comprehensive suite of powerful features for protein quantitation data analysis:

- Full statistical analysis package, delivering R^2 , CVs and CHI values to establish the statistical significance of ELISA data
- Superior algorithms to calculate more accurate concentrations at both high and low ends of your standard curves
- Comprehensive, detailed reports and enhanced visualization with clustering and heat map capabilities

MILLIPLEX® Analyst 5.1 Detail Report

Expected pM(i)	MFI(i)	pM(i)	MFI	pM	CV	Recovery
0	140		144.5		4.40%	
	149					
0.14	164	0.2	156.5	0.15	6.78%	107.4%
	149	0.1				
0.41	190	0.39	190	0.39	0%	93.99%
	190	0.39				
1.23	303	1.24	305	1.25	0.93%	101.36%
	307	1.27				
3.7	683	3.71	682	3.71	0.21%	100.07%
	681	3.7				
11.11	2302	11.37	2240	11.11	3.88%	100.01%
	2179	10.86				
33.33	8438	33.7	8317	33.27	2.06%	99.82%
	8196	32.85				
100	25710	100.46	25635	100.13	0.41%	100.12%
	25560	99.79				

CHI=0.0081%, CV=0.21%, $R^2=1$, DC=(0.062, 180.70)



Typical ELISA data analysis report provided by MILLIPLEX® Analyst 5.1 software, including informative statistics and superior curve fit.

TRY MILLIPLEX® ANALYST 5.1 SOFTWARE NOW WITH A FREE 30-DAY DEMO!

Visit www.merckmillipore.com/mpx_demo

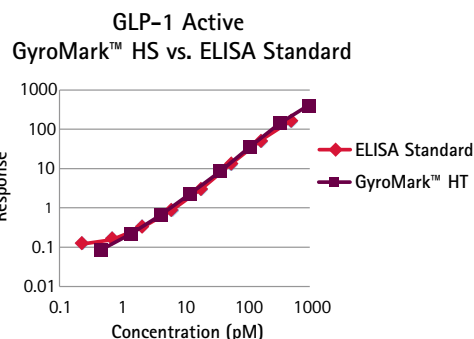
Introducing new GyroMark™ HT Assays.

Fully qualified kits for the Gyrolab® platform!

As a Gyrolab® user, you know how reliable and fast the technology can be. But developing your own kits can be time-consuming and costly, especially when you need to support a long-term biomarker study through every phase.

Merck Millipore, your trusted supplier of multiplex biomarker panels and ELISAs, has partnered with Gyros to be the first company to provide high quality, robust and reproducible kits to save you time and money!

Our off-the-shelf kits contain all the components you need to efficiently complete your project in days instead of weeks.



High correlation to ELISA data. Excellent overlap of GLP-1 Active standards between the GyroMark™ Multi-Species GLP-1 Active Assay (Cat. No. GYGLP1A-35K) for the Gyrolab® xP Workstation and Merck Millipore's Multi-Species GLP-1 Active ELISA assay (Cat. No. EGLP-35K). Sample volume was 1,000 nL and samples were diluted 1:2.

We also have the expertise and staff to develop custom assays, using your antibodies or ours.

Description	Species	Catalog No.
Clusterin	Rat	GYRCLU-37K
Cystatin C	Rat	GYRCYSC-48K
GLP-1, Active	Multi-species	GYGLP1A-35K
GLP-1, Total	Multi-species	GYGLP1T-36K
Insulin	Human	GYHINS-14K
Insulin	Rat/Mouse	GYRMI-13K
KIM-1	Rat	GYRKIM1-20K
Lipocalin-2/NGAL	Rat	GYRNGAL-50K
β-2-Microglobulin	Rat	GYRB2M-49K

Advantages of using Merck Millipore off-the-shelf or custom-made assays, compared to developing and validating your own Gyrolab® assays:

- Fully qualified, robust and reproducible assays
- High correlation to ELISAs and Luminex® assays
- Order specific lots of reagents to minimize variation and lot-to-lot drift
- Off-the-shelf kits include all the components to run an assay
- Merck Millipore has over 25 years experience in kit development

GyroMark™ HT Assays—everything you need in one, easy-to-use format:

- Buffers (specifically made for the Gyrolab® platform)
- Standards (recombinant proteins validated to World Health Organization standards, when available)
- Quality Controls (low, middle and high concentration values to confirm kit performance)
- Capture and Detection Antibody Pairs (selected for optimal performance)
- Preloaded CD (produced by Gyros)

Looking to get more data with less time, sample and fewer people?

Gyros technology delivers high quality immunoassay data over a broad dynamic range, and helps you save time, sample and reagents. This is achieved through precise, automated control of centrifugal and capillary forces to steer liquid flow in proprietary nanoliter-scale microfluidic structures.

- High-quality data from pg to μg . Minimize dilutions and repeats.
- Minimize matrix effects. Maximize simplicity and flexibility.
- Nanoliter precision. Reduced consumption.
- Move your assay from conventional ELISA to the Gyros platform with confidence.
- Open platform. Full flexibility.

Considering owning your own Gyrolab® workstation?

Visit: www.gyros.com

Or, contact your local Protein Specialist to discuss which option is best for your laboratory.





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please call: +44 (0) 115 943 0840

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