

Glycoprotein Isolation Kits

Isolate glycoproteins from complex protein mixtures in less than an hour.

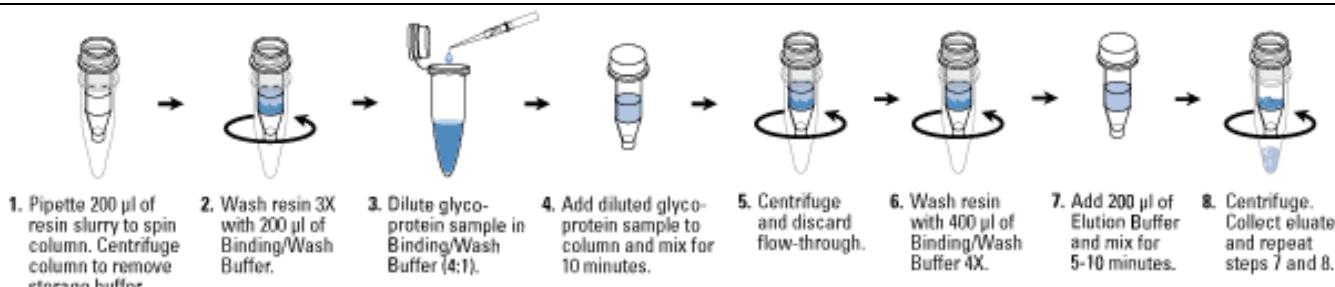
Glycoprotein Isolation Kits, Concanavilin A (ConA) and Wheat Germ Agglutinin (WGA) allow isolation of glycoproteins from complex mixtures, including serum, tissue and cultured cell lysates.

These two kits use lectins concanavilin A (ConA) and wheat germ agglutinin (WGA), respectively, as ligands to bind specific classes of glycoproteins from complex protein samples. ConA lectin recognizes alpha-linked mannose and terminal glucose residues, while WGA lectin selectively binds to *N*-Acetyl glucosamine (GlcNAc) groups and to sialic acid. The kits include ConA or WGA beaded agarose resin, optimized binding/wash and elution buffers, and easy-to-use microcentrifuge spin columns. The kits have been used to successfully isolate glycoproteins from serum as well as HeLa and CHO cell lysates in approximately 50 minutes.

Highlights:

- **High recovery** – equivalent or greater glycoprotein recovery versus competitor kits and lectin resins
- **Fast** – glycoprotein purification in less than an hour
- **Versatile** – isolate glycoproteins from various sample types, e.g., human serum and cell lysate.
- **Robust** – lectin does not leach from resin when processing sample
- **Convenient** – complete kit offering lectin resins and spin columns with all necessary reagents
- **Compatible with Bradford-based protein assays** – dialysis or protein precipitation of recovered glycoproteins is not required prior to protein assay

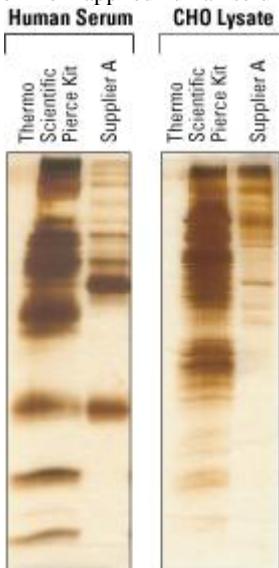
Product Details:



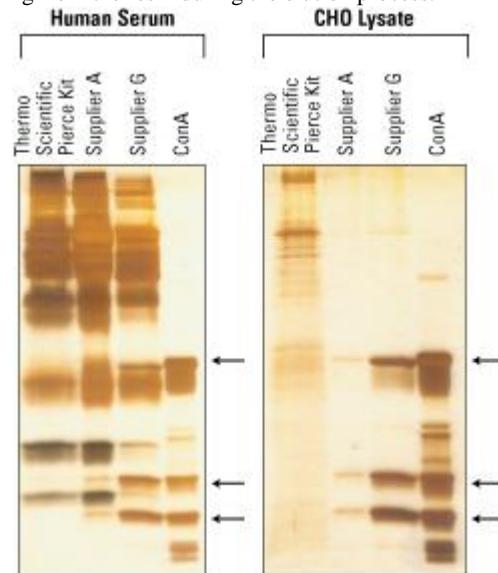
Glycoprotein Isolation Kit Protocol

The Concanavalin A lectin recognizes α -linked mannose and terminal glucose residues, while the Wheat Germ Agglutinin lectin selectively binds to *N*-Acetyl glucosamine (GlcNAc) groups and to sialic acid. The immobilized ConA and WGA lectins used in these Glycoprotein Isolation Kits allows selective recovery and downstream analysis of glycosylated proteins which are known to have important biological function in immune regulation, inflammation, cell-to-cell adhesion, and cell signaling.

Glycoprotein isolation from human serum and cell lysate – performance comparison of kits using WGA resin. CHO lysate and human serum samples were processed with the Glycoprotein Isolation Kit, WGA and with other commercially available WGA resins. An equivalent amount of total protein was applied to each resin. Eluted glycoprotein fractions were normalized by volume and resolved on 8-16% polyacrylamide gels. (a) Eluted glycoprotein fraction from applied CHO lysate (b) Eluted glycoprotein fraction from applied human serum.



Glycoprotein isolation from human serum and cell lysate – performance comparison of kits using ConA resin. CHO lysate and human serum samples were processed with the Glycoprotein Isolation Kit, ConA and with other commercially available ConA resins. An equivalent amount of total protein was applied to each resin. Eluted glycoprotein fractions were compared with ConA Resin boiled in SDS-PAGE Buffer to release lectins. All fractions were normalized by volume and resolved on 8-16% polyacrylamide gels. Gels were then silver stained. (a) Eluted glycoprotein fractions from applied CHO lysate (b) Eluted glycoprotein fractions from applied human serum. Arrows identify protein bands that result from ConA leaching from the resin during the elution process.



Ordering Information

Product #	Description	Pkg. Size	Instructions	MSDS	CofA	Price
89804	Glycoprotein Isolation Kit, ConA Formulation: Multi-component kit with ConA Lectin Resin <i>Sufficient For: Isolating glycoproteins with strong affinity for ConA from 10 samples of up to 640μL (1 to 1.5mg total protein) each</i>	10-rxn kit				
	Kit Contents: ConA Lectin Resin, 1.1mL Binding/Wash Buffer (5X), 6.5mL Elution Buffer, 5mL Spin Columns, 10 columns Collection Tubes, 20 tubes					
89805	Glycoprotein Isolation Kit, WGA Formulation: Multi-component kit with WGA Lectin Resin <i>Sufficient For: Isolating glycoproteins with strong affinity for WGA from 10 samples of up to 640μL (1 to 1.5mg total protein) each</i>	10-rxn kit				

Kit Contents:
WGA Lectin Resin, 1.1mL
Binding/Wash Buffer (5X), 6.5mL
Elution Buffer, 5mL
Spin Columns, 10 columns
Collection Tubes, 20 tubes

Related products lines

Interbiotec - BioSciences innovation – proposes a complete range of products for protein biochemistry.

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Desalting tools – CelluSep tubings, SpectraPor tubings, GebaFlex, FloatALyser, SlideALyser,...

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