

Protein, carbohydrate or both? : you choose / Oxford GlycoSystems Ltd.

Contributors

Oxford GlycoSystems Ltd.

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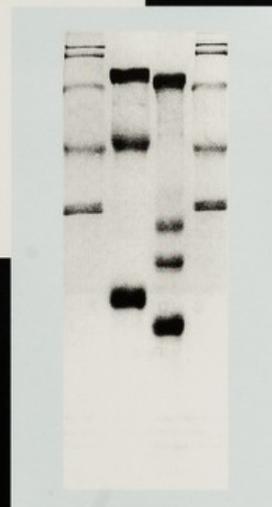
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**Protein,
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or Both?**



**You
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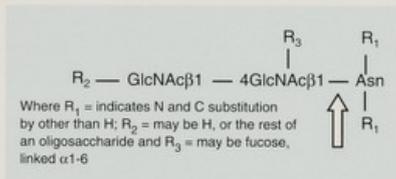
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There are simple and quick ways to:

- **detect** the presence of N-linked oligosaccharides on your (glyco)protein
- **release** and recover the N-glycans from your glycoprotein to study them further
- **estimate** the number of N-glycan chains present
- **remove** the N-linked oligosaccharides from your glycoprotein to study the protein further

You might want to do all four. With the new recombinant **PNGase F** and **GlycoShift™** kit from Oxford GlycoSystems, the choice is yours.



Recombinant PNGase F of Exceptional Value

Our recombinant PNGase F (Cat. No: E-5006) is cloned from *Flavobacterium meningosepticum* and over expressed in *E. coli* to yield a recombinant product of extremely **high purity** and **batch to batch** consistency. It is supplied **glycerol free** and with a five times concentrated **incubation buffer**.

As with our other enzymes, recombinant PNGase F has been extensively tested for contaminating activities against a panel of **both native and synthetic** substrates. It is supplied **protease free** in packs of 20 U and 5 x 20 U for your convenience. Bulk quantities can be supplied to order - please inquire.

Packaged for your Convenience

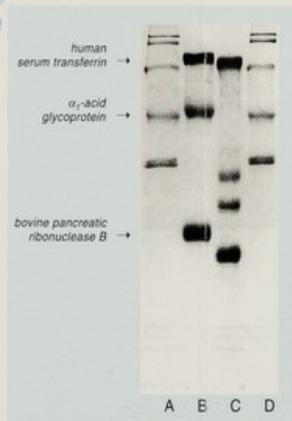
GlycoShift (Cat. No: K-100) is a kit which contains all the essential reagents and protocols for the detection and quantitation of N-linked oligosaccharides or glycoproteins.

GlycoShift uses our new recombinant PNGase F to selectively remove N-glycans from the glycoprotein sample. Analysis of the effect of PNGase F is achieved by SDS-PAGE under reducing conditions. An increase in mobility of the PNGase F treated glycoprotein confirms that it does contain N-glycans and that the sample is susceptible to PNGase F.

The kit also includes a method to indicate the approximate number of N-linked oligosaccharides attached to the original sample glycoprotein using a time-course of hydrolysis by PNGase F, with analysis by SDS-PAGE.

SDS-PAGE analysis of the control glycoproteins without (lane B) and with (lane C) incubation with PNGase F according to GlycoShift Protocol I. Lanes A and D - MW markers.

The molecular weight range of glycoproteins which can be analyzed depends on the SDS-PAGE system used - the accuracy of the gel system should allow changes in protein mobility of ≥ 3 kD to be detected.



GlycoShift is supplied with sufficient:

- recombinant PNGase F
- incubation buffer
- sample denaturation buffer
- control glycoproteins and molecular weight standards

for the analysis of about 10 samples and 2 sets of control glycoproteins. A protocol is supplied to provide step-by-step instructions and guidelines for interpreting results.

So, if you want to remove or recover glycans from your glycoprotein, choose our new **recombinant PNGase F**. Or, if you want to detect the presence and estimate the amount of N-linked oligosaccharides, choose **GlycoShift**.

And remember, **PNGase F** and **GlycoShift** are delivered to you with the full technical support of the world leaders in glycobiology - Oxford GlycoSystems.

Introductory Offer

Order a **GlycoShift** kit and/or recombinant **PNGase F** before 30 July 1994 and take advantage of a 10% discount. Simply complete the order form on the reverse and fax or mail it to Oxford GlycoSystems TODAY.

