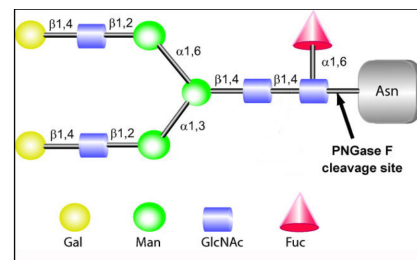


Krishzyme™ PNGase-F / Krishzyme™ Swift PNGase-F

Recombinant Peptide-N-Glycosidase F for complete, reproducible release of N-linked glycans from glycoproteins.

PNGase F cleaves the bond between the innermost N-acetylglucosamine (GlcNAc) and asparagine residues of high-mannose, hybrid, and complex N-linked oligosaccharides — the standard first step in released-glycan sample preparation for HILIC, HPLC, and mass-spectrometry-based glycan profiling. **Krishzyme™ PNGase-F** is a mutant recombinant PNGase F cloned from *Flavobacterium meningosepticum* and expressed and purified from *E. coli*. Proprietary changes made to the enzyme give it unique characteristics compared to other commercially available sources of PNGase F: it works on native glycoproteins and serum glycoproteins in minutes at room temperature, and digestion leads to more complete glycan release — including cleavage of glycans not released by other commercial enzymes under matched concentration and digestion conditions. Preliminary data also indicates higher specificity toward complex (tri- and tetra-antennary) sialylated structures compared to standard commercially sourced PNGase F.



THREE FORMATS, ONE ENZYME

KPGF-001

Glycerol-Free

Supplied glycerol-free at 2 mg/mL, for applications where glycerol carryover must be avoided in downstream mass-spectrometry or chromatographic analysis.

KPGF-002

Standard

Standard glycerol-stabilized formulation for routine N-glycan release in general deglycosylation and glycoprotein characterization workflows.

KPGF-003

Swift™

Same rapid, room-temperature digestion chemistry, packaged for labs standardizing on Krishgen's Swift™ rapid N-glycan sample-prep line.

All three formats share the same recombinant PNGase F chemistry described above; formats differ in glycerol content and packaging.

PERFORMANCE THAT SHOWS UP IN THE DATA

More Complete Release

In side-by-side testing on native Avastin® (IgG1), this enzyme chemistry released 11 distinct oligosaccharide structures.

Sharper MS Peaks

Produced 33% more peaks, with sharper resolution and lower background, than a leading commercial PNGase F when digesting native fetuin under matched conditions.

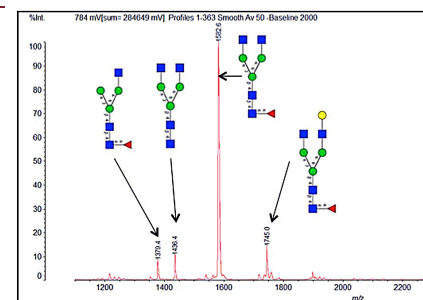
Better Sialylated Coverage

HPLC analysis showed more pronounced neutral, bi-, tri-, and tetra-sialylated peaks than the same competing PNGase F.

Room-Temp, Minutes

Digests native and serum glycoproteins in minutes at room temperature — no extended heat denaturation step required.

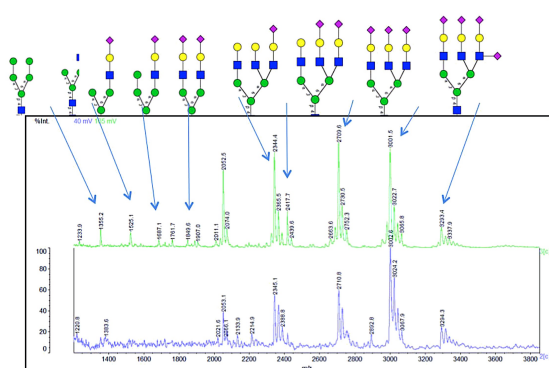
Comparative data generated in side-by-side testing of this enzyme chemistry against a leading commercially available PNGase F; results shown are representative examples, not exhaustive validation for every sample type.



ORDERING INFORMATION

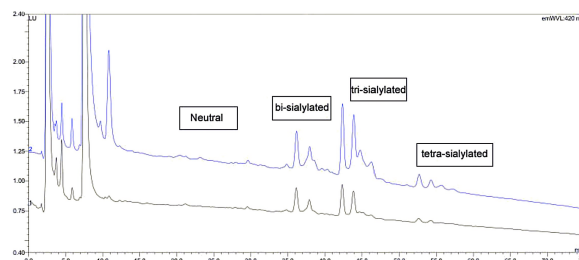
Catalog #	Product	Pack Size
KPGF-001-A	Krishzyme™ PNGase-F (glycerol-free), recombinant	50,000 U / 50 µl
KPGF-001-B	Krishzyme™ PNGase-F (glycerol-free), recombinant	2 × 50,000 U / 50 µl
KPGF-002-A	Krishzyme™ PNGase-F, recombinant	15,000 U / 30 µl
KPGF-002-B	Krishzyme™ PNGase-F, recombinant	5 × 15,000 U / 30 µl
KPGF-003-A	Krishzyme™ Swift™ PNGase-F, recombinant	15,000 U / 30 µl
KPGF-003-B	Krishzyme™ Swift™ PNGase-F, recombinant	5 × 15,000 U / 30 µl

RIUO: For Research & Industrial Use Only. Not for diagnostic or therapeutic use.



Krishzyme Swift
PNGase-F
(Green)

Company "N"
(Blue)



Krishzyme Swift
PNGase-F
(Blue)

Company "N"
(Black)

When analysis was done by HPLC, Krishzyme Swift PNGase (in blue) shows more pronounced peaks than the same competing PNGase F (in black) from competitor N*. Also note the additional peaks in both the neutral and sialylated regions, particularly the trisialo region.

When compared with competitor N*, Krishzyme Swift PNGase F produced 33% more peaks, sharper peaks and with much lower background when cleaving the native form of the blood borne glycoprotein fetuin.