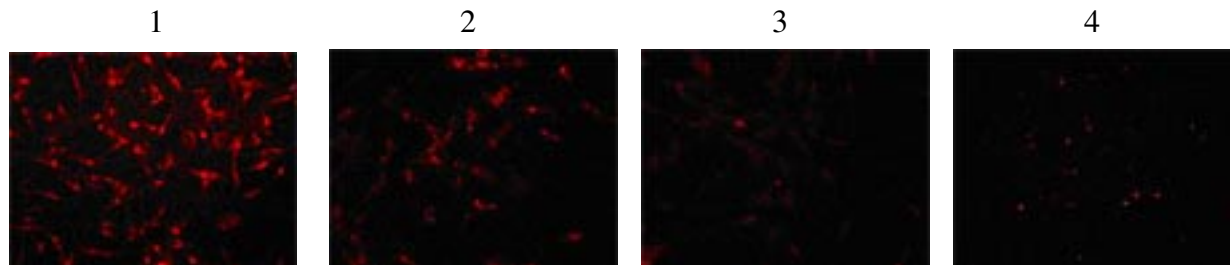


SUPPORTING INFORMATION

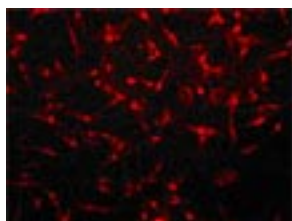
1. Low affinity of non-saccharide porphyrins to MDA-MB-231 human breast cancer cells, compared to P-Glu₄.



1. P-Glu₄
2. meso-tetra (4-Carboxyphenyl)porphyrin tetramethyl ester
3. meso-tetra(4-Methoxyphenyl)porphyrin
4. TPPF₂₀

2. Low affinity of acetyl protected tetra-glucose porphyrin to MDA-MB-231 human breast cancer cells, compared to unprotected tetra-glucose porphyrin (P-Glu₄).

Unprotected tetra-glucose
porphyrin (P-Glu₄)

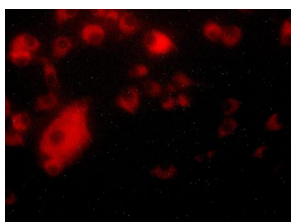


Acetyl protected tetra-
glucose porphyrin



3. Low affinity of P-Gal₄ to fully transformed 3Y1^{v-Src} rat fibroblast, compared to P-Glu₄.

P-Glu₄



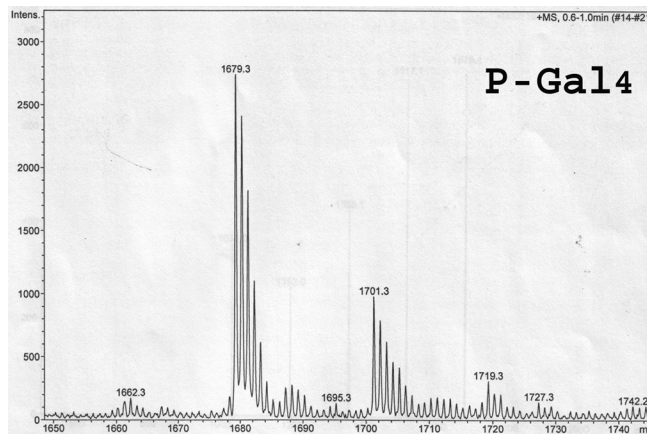
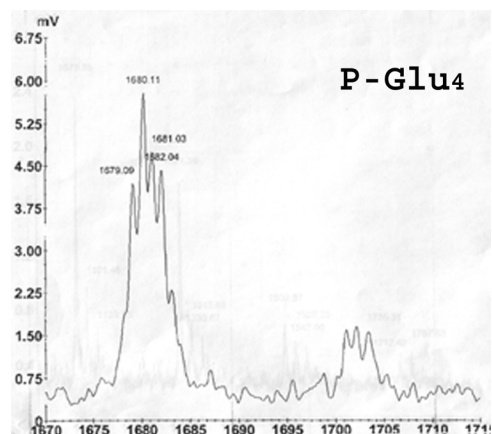
P-Gal₄



4. Extinction coefficients of TPPF₂₀, P-Glu₄ and P-Gal₄.

ϵ (L/mol·cm)	Soret Band	Q ₁	Q ₂	Q ₃	Q ₄
TPPF ₂₀ (CH ₂ Cl ₂)	6.50×10^5	4.46×10^4	4.47×10^3	1.51×10^4	3.20×10^3
TPPF ₂₀ (CH ₃ OH)	6.22×10^5	4.49×10^4	5.92×10^3	1.50×10^4	3.30×10^3
P-Glu ₄ (CH ₃ OH)	1.83×10^5	1.31×10^4	3.81×10^3	4.87×10^3	3.19×10^3
P-Glu ₄ (H ₂ O)	1.30×10^5	1.06×10^4	2.21×10^3	3.98×10^3	2.12×10^3
P-Gal ₄ (CH ₃ OH)	1.74×10^5	1.18×10^4	1.82×10^3	3.57×10^3	1.26×10^3
P-Gal ₄ (H ₂ O)	1.38×10^5	0.866×10^4	1.71×10^3	3.09×10^3	0.973×10^3

λ_{\max}	Soret Band	Q ₁	Q ₂	Q ₃	Q ₄
TPPF ₂₀ (CH ₂ Cl ₂)	411	506	535	582	623
TPPF ₂₀ (CH ₃ OH)	406	503	534	579	632
P-Glu ₄ (CH ₃ OH)	410	505	535	583	647
P-Glu ₄ (H ₂ O)	410	508	541	584	646
P-Gal ₄ (CH ₃ OH)	410	504	536	582	648
P-Gal ₄ (H ₂ O)	410	508	538	577	641

5. MALDI mass spectra of P-Glu₄ and P-Gal₄.

The peaks at 1701 are Na⁺ (+23) from the parent peaks, which is typical for sugar porphyrins.

6. Low affinity of P-Glu₄ to mouse NIH3T3 fibroblast (right), compared to human breast cancer MDA-MB-231 cells (left).

