Supplementary information for:

Galactose-derived phosphonate analogues of inositol-1-phosphate and phosphatidylinositol

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Contents:

S2: $^1$H NMR for $(\text{PhO})_2\text{PNMe}_2$
S3: $^1$H NMR for $(\text{PhO})_2\text{P(OiPr)}$
S4: $^{13}$C NMR for $(\text{PhO})_2\text{P(OiPr)}$
S5: $^1$H NMR for 3
S6: $^{13}$C NMR for 3
S7: $^1$H NMR for 7
S8: $^{13}$C NMR for 7
S9: $^{31}$P NMR for 7
S10: $^1$H NMR for 8
S11: $^{13}$C NMR for 8
S12: $^{31}$P NMR for 8
S13: $^1$H NMR for 11
S14: $^{13}$C NMR for 11
S15: $^{31}$P NMR for 11
S16: $^1$H NMR for 12
S17: $^{13}$C NMR for 12
S18: $^{31}$P NMR for 12
S19: $^1$H NMR for 13
S20: $^{13}$C NMR for 13
S21: $^1$H NMR for 1
S22: $^{31}$P NMR for 1
S23: $^{31}$P NMR for 2
S24: HRMS data for 2
S25: HPTLC analysis of octyl α-D-mannoside control experiment.
(PhO)\textsubscript{2}PNMe\textsubscript{2}
$\text{S8} \quad \text{OP(OH)}_2 \quad \text{O} \quad \text{BnO} \quad \text{OMe} \quad \text{O}$
Experimental peaks

### SJW-2006-03-16-05 (CG-01)

Full MS (M+Na)^+

![Experimental Peaks Diagram](image)

Theoretical peaks

### SJW-2006-03-16-05 (CG-01)

Full MS (M+Na)^+
Detergent control experiment: HPTLC analysis of octyl α-D-mannoside. M. smegmatis cell lysates were incubated with GDP-[^3]H]mannose in the absence (0) or presence of different concentrations of octyl α-D-mannoside (concentrations in mM). S = authentic PIM standards derived from in vivo [^3]H]mannose labelling; A = Ac2PIM1; B = PPM, Ac2PIM2, AcPIM1; C = AcPIM2; D = PIM1; E = PIM2; F = AcPIM5, AcPIM5'; G = AcPIM6. The abbreviations used are: Ac_{x}PIM_{y}, PIM species with x (1 or 2) fatty acyl chains, linked to either the core α-1,2-linked Man or the myo-inositol head group, and y Man residues; PPM, polyprenol (C_{35}/C_{50}) phosphomannose.