SUPPLEMENTAL FIGURES

FIGURE S1: Sphingoid bases induce *CHA1* in a dose-dependent manner**.** A, B, C. *CHA1* expression was measured by qRTPCR before and after treatment with exogenous sphingoid bases. Expression versus dose was measured in JK9-3dα cells after addition of 0, 5, 10, and 25 μM PHS (open circles) or DHS (closed squares) for 30 min. Three independent experiments were conducted. D. A time course of *CHA1* induction was measured at 0, 30, 60 and 120 min with 1 μM PHS, also in JK9-3dα. Cells were treated in mid-log phase at 30 °C in YPD, all samples contained 0.025 % vehicle (DMSO).

FIGURE S2: Sphingoid bases are toxic above 5 μM. A mid-log JK9-3dα culture in YPD was aliqoted into a microtiter plate with 0.3 ml per well, and then treated with 0, 0.5, 1, 5, 10 and 25 μM PHS or DHS overnight. All cultures contained 0.025 % vehicle (DMSO). The final OD_{600} was measured in a plate reader.

FIGURE S3: Identification of TLC spots containing complex sphingolipids by comparing the spots of inositol-labeled versus serine-labeled samples of wild type cells. Mid-log cultures grown in SC –thr were labeled for 6 hours with 20 μCi of ^{3}[H]-serine or ^{3}[H]-inositol. Lipids were extracted and separated according to "materials and methods".

FIGURE S4: Complex sphingolipid synthesis is inhibited at the lowest dose of aureobasidin and fumonisin used in this study. Mid-log cultures grown in SC –thr were labeled with 20 μCi ^{3}[H]-serine for 4 hours, and then treated with 0.5 μM aureobasidin (A), or 0.2 mM fumonisin (B) for an additional 2 hours, and then extracted and separated by TLC according to "materials and methods".

Figure S1

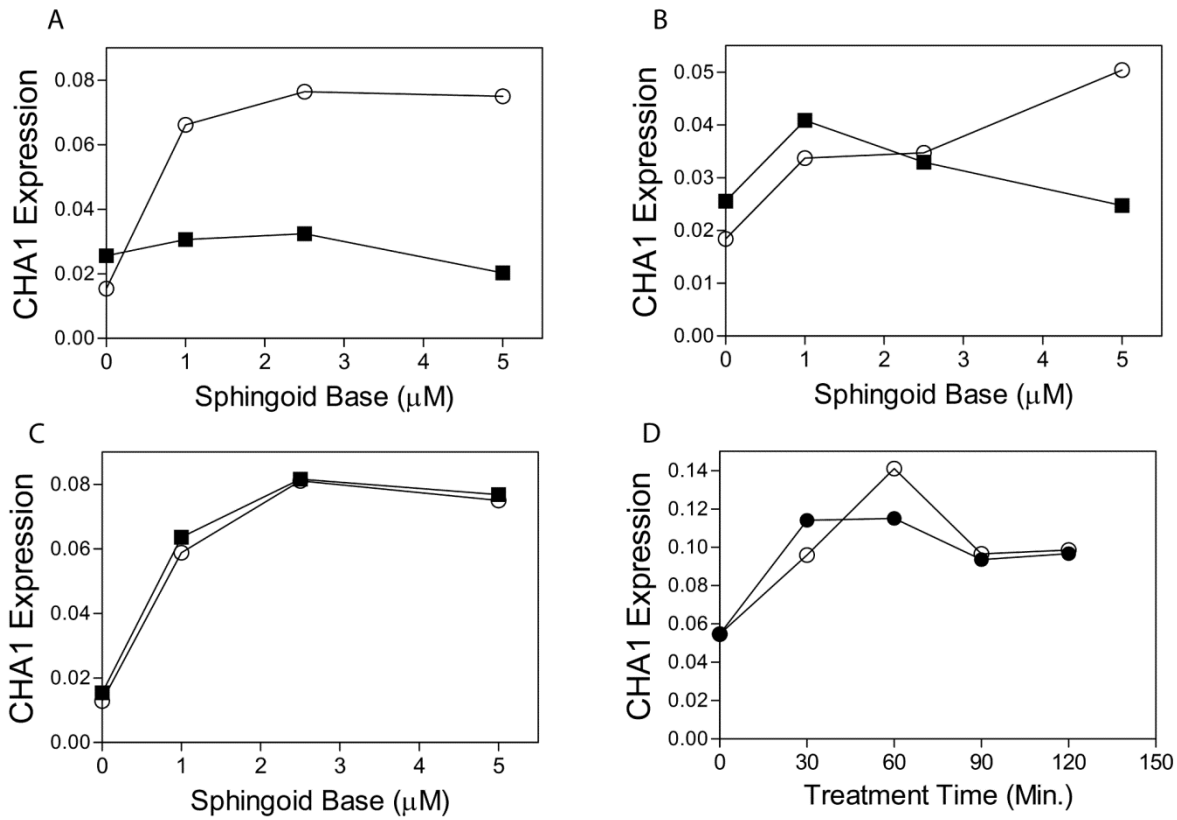

A
CHA1 Expression
0.00
0.02
0.04
0.06
0.08
0 1 2 3 4 5
Sphingoid Base (μM)
B
CHA1 Expression
0.00
0.01
0.02
0.03
0.04
0.05
0 1 2 3 4 5
Sphingoid Base (μM)
C
CHA1 Expression
0.00
0.02
0.04
0.06
0.08
0 1 2 3 4 5
Sphingoid Base (μM)
D
CHA1 Expression
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0 30 60 90 120 150
Treatment Time (Min.)

Figure S2

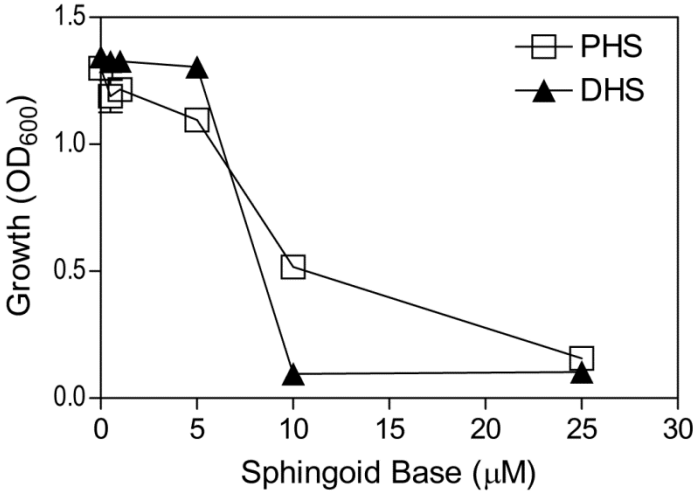

PHS
DHS
Growth (OD_{600})
1.5
1.0
0.5
0.0
0
5
10
15
20
25
30
Sphingoid Base (μM)

Figure S3

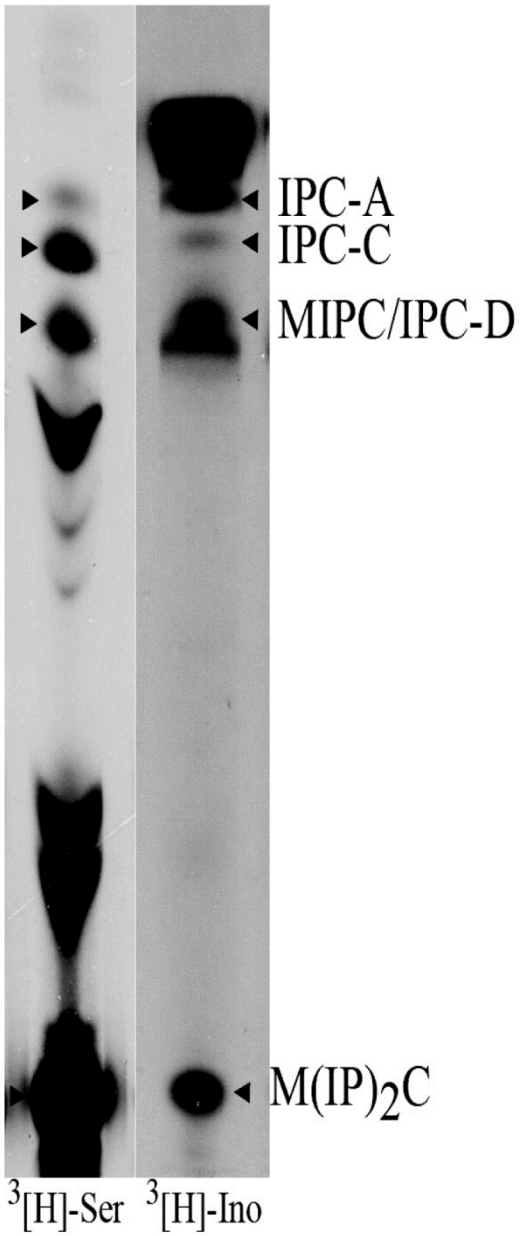
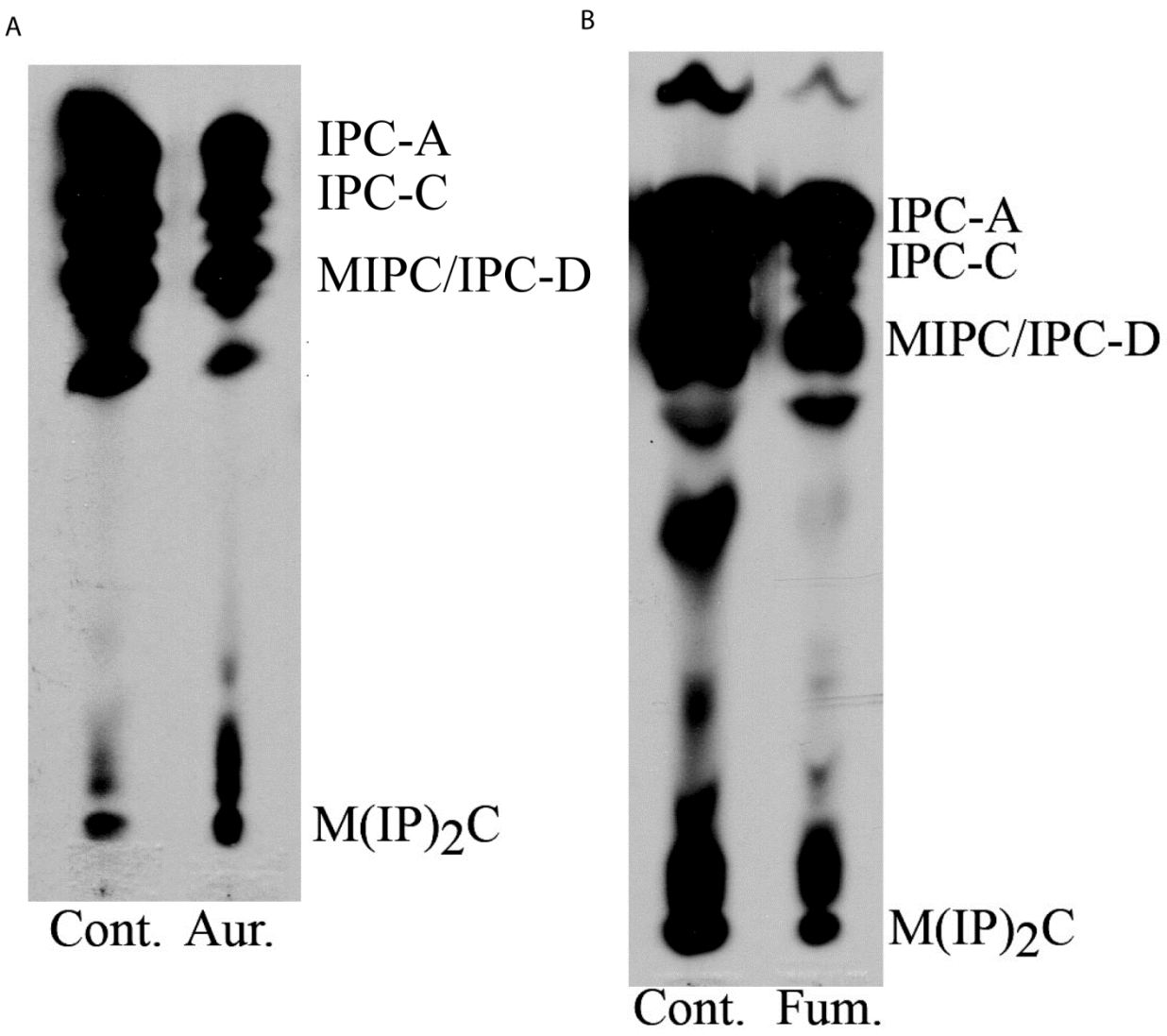


Figure S4


A
IPC-A
IPC-C
MIPC/IPC-D
M(IP)2C
Cont. Aur.
B
IPC-A
IPC-C
MIPC/IPC-D
M(IP)2C
Cont. Fum.