

Supplementary Table 1: Results of SB-04 Alanine Scan

	FPA <sup>(A)</sup> (IC <sub>50</sub> $\mu$ M)	NMR <sup>(B)</sup>
N1A	>75	NB
E2A	41 $\pm$ 8	Weak
T3A	20 $\pm$ 1.9	Bound
V4A	>75	NB
E5A	15.0 $\pm$ 1.6	NB
L6A	30 $\pm$ 6	Weak
M7A	>75	NB
Q8A	13.7 $\pm$ 1.5	Weak
A9 (WT)	8.0 $\pm$ 1.1	Bound
Y10A	>75	Weak
L11A	>75	NB
H12A	8.0 $\pm$ 1.1	Not Soluble*

<sup>(A)</sup> FPA analysis performed using GST-mMcl-1

<sup>(B)</sup> For classification NB  $\equiv \delta\Delta < 0.1$  ppm at a 10:1 peptide:protein ratio; Weak  $\equiv \delta\Delta 0.1 - 0.25$  ppm and Bound  $\equiv \delta\Delta > 0.25$  ppm

\* Not soluble at 200 nM in NMR buffer

Supplementary Table 2: rBH3 Containing Proteins

Protein Name	UniProt ID	rBH3 sequence
SB-03		NETVNTMLTYYY
Glucokinase	P35557	NDTVATMISCYY
MAP2KS	Q13163	DEEMKAMLSYYY
Hexokinase I	P19367	NDTVGTMMTCGY
Hexokinase II	P52789	NDTVGTMMTCGY
Hexokinase III	P52790	NDTVGTMMGCEP
Putative Hexokinase HKDC1	Q2TB90	NDTVGTMMTCAY NDTVGTMMTCGY
PTBP1	P26599	EAAANTMVNYYT
Glycogen phosphorylase	P06737	NNTVNTMRLWSA
GREB1 like protein	Q9C091	RETVSIMLTKYA
SB-04		NETVELMQAYLH
UBCP1	Q8WVY7	ETGVELMRPYLH
Dynein heavy chain 8	Q96JB1	EETVELLQPYFN
Cyclin dependent kinase 4 inhibitor C	P42773	NEVVSLMQANGA
Alcohol dehydrogenase 6	P28332	NEAVELMKTGKW
ATP Synthase Subunit A	B2XEH8	EIAVALMQAYVF
P73	O15350	KESLELMELVPQ
UNC13C	Q8NB66	TETDEQMAYDH
Ras-GEF1	Q13972	TEHEALMQKYLH