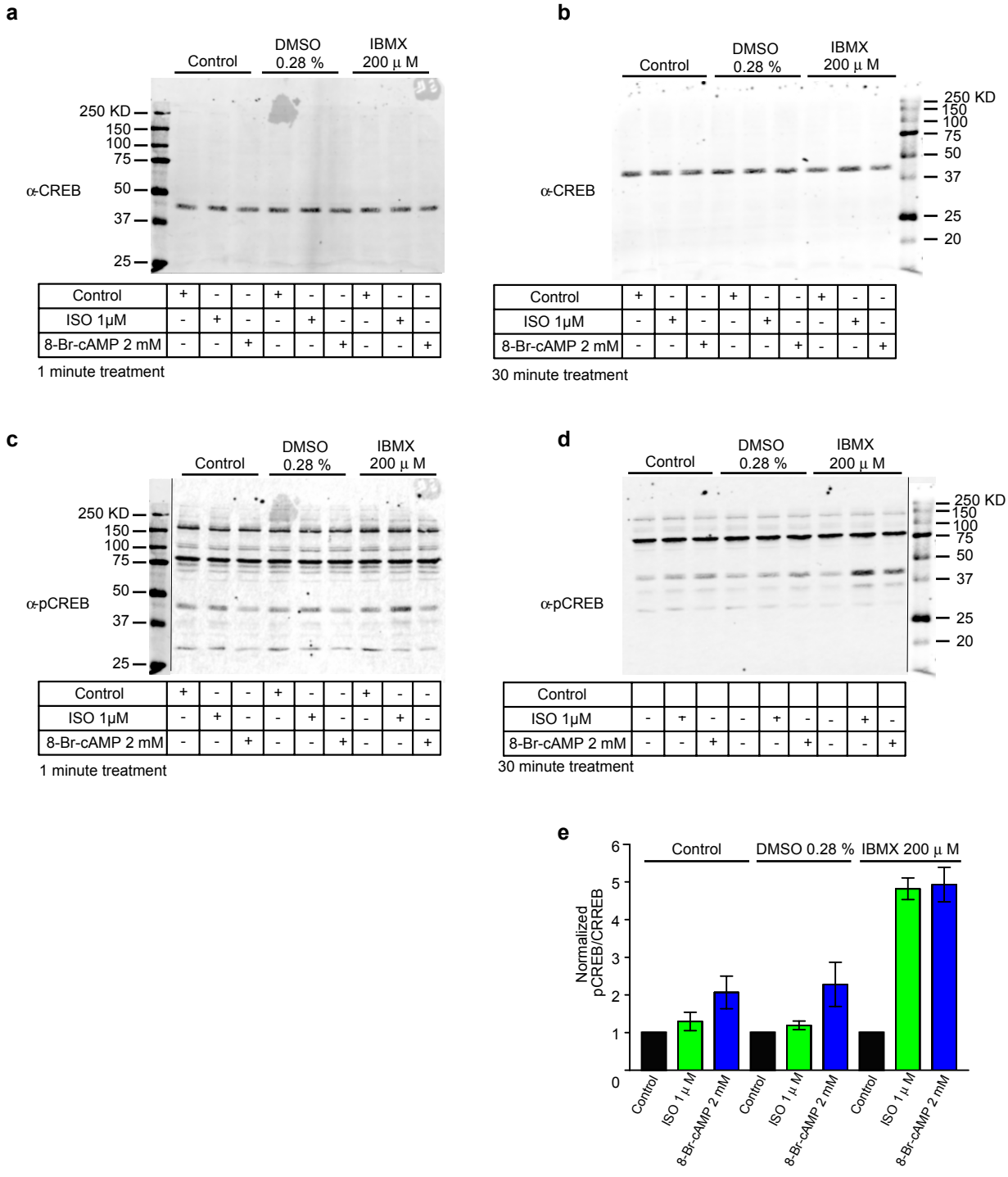
Table S1 | Summary of drug targets and observed effect.

Drug	Target	Molecular Function	Observed Effect on β_2AR Ca^{2+} signal
Norepinephrine	All ARs	Agonist	Calcium mobilization
Epinephrine	All ARs	Agonist	Calcium mobilization
Isoproterenol	All ARs	Agonist	Calcium mobilization
Terbutaline	All ARs	Agonist	Calcium mobilization
Prazosin	α_1ARs	Antagonist	No inhibition
Yohimbine	$\alpha_{1/2}$ARs	Antagonist	No inhibition
Propranolol	β_1 and β_2ARs	Antagonist	Suppression
ICI 118,551	β_2AR	Antagonist	Suppression
ATP	P_2YR	Agonist	N/A
8-bromo-cAMP	PKA	Activator	No Ca^{2+} mobilization
H-89	PKA	Inhibitor	No suppression
KT 5720	PKA	Inhibitor	No suppression
IBMX	PDE	Inhibitor	No effect
ddAd	AC	Inhibitor	No effect
SQ 22,536	AC	Inhibitor	No effect
DAMGO	μOR ($G_{\alpha i/0}$ coupled)	Agonist	No effect
CTX	$G_{\alpha s}$	Activator	No Ca^{2+} mobilization
PTX	$G_{\alpha i/0}$	Inhibitor	No inhibition
EGTA	Ca^{2+}	Chelator	No suppression of peak response
TG	SERCA-ATPase pump on ER membrane	Deplete ER of Ca^{2+}	Suppression
U73122	PLC	Inhibitor	Suppression
2-APB	$InsP_3R$	Inhibitor	Suppression
Carbachol	M_3R ($G_{\alpha q}$ coupled)	Agonist	N/A

Figure S1



Supplemental Figure S1| Full western blot scans from figure 3. Infrared fluorescence scans of immunoblots, each representative of three independent experiments. a,b) staining for total CREB (43 kDa) after 1 and 30 minutes treatment with ISO and 8-Br-cAMP. c,d) staining for pCREB (43 kDa) after 1 and 30 minutes treatment with ISO and 8-Br-cAMP. e) pCREB/CREB ratios normalized to control averaged from 3 independent experiments following treatments with ISO and 8-Br-cAMP for 30 minutes. Bar graphs are averages of three or more independent experiments, error bars indicate SEM. Panels a and c are from the same gel, as are panels c and d, and in each case an image of the M_r marker lane imaged using the optics for the dye used to detect total CREB in panel a or b is pasted adjacent to the images of the lanes containing the samples for each gel.