



Supplemental Figure 1

Inhibitions of AVP-induced increases of $[Ca^{2+}]_i$ as a function of concentrations of TASP699 and [phenylac¹,D-Tyr(Me)²,Arg^{6,8},Tyr-NH₂⁹]-vasopressin as a positive control. Data represent the average percentage of the control response without test compounds from three experiments performed in duplicate. A nonlinear fit was applied to the measured data.

Supplemental Table 1

Binding of TASP699 to off-target G protein-coupled receptors, transporters, and ion channels

Values are expressed as the means of the percent inhibition of control-specific binding performed in duplicate.

Target molecule (species)	% inhibition at 1 μ M
Adenosine A ₁ (human)	2.05
Adenosine A _{2a} (human)	0.00
Adenosine A ₃ (human)	3.67
Adenosine transporter (guinea pig)	7.03
α_{1A} -Adrenergic (rat)	0.97
α_{1B} -Adrenergic (rat)	0.21
α_{2A} -Adrenergic (human)	6.89
α_{2B} -Adrenergic (human)	6.00
α_{2C} -Adrenergic (human)	0.00
β_1 -Adrenergic (human)	1.14
β_2 -Adrenergic (human)	1.69
Angiotensin AT ₁ (human)	1.51
Angiotensin AT ₂ (human)	4.28
Androgen (rat)	1.19
Bradykinin B ₁ (human)	0.00
Bradykinin B ₂ (human)	6.10
Bombesin (rat)	0.90
Ca ²⁺ channel (type L, benzothiazepine) (rat)	5.09
Ca ²⁺ channel (type L, dihydropyridine) (rat)	1.14
Ca ²⁺ channel (type L, phenylalkylamine) (rat)	1.83
Ca ²⁺ channel (type N) (rat)	0.35
Cannabinoid CB ₁ (human)	0.00

Cannabinoid CB ₂ (human)	0.00
CCK _A (human)	1.53
CCK _B (human)	3.49
CRF ₁ (human)	0.00
Dopamine D ₁ (human)	1.57
Dopamine D ₂ short (human)	3.49
Dopamine D ₃ (human)	1.84
Dopamine D _{4.2} (human)	1.30
Dopamine D ₅ (human)	0.00
Dopamine transporter (human)	0.46
Estrogen (rat)	0.00
Endothelin ET _A (human)	0.00
Endothelin ET _B (human)	0.00
GABA _A (agonist Site) (rat)	0.00
GABA _A (benzodiazepine site) (rat)	0.85
GABA _A (chloride channel) (rat)	3.50
GABA _B (rat)	7.74
GABA transporter (rat)	0.00
Glucocorticoid (human)	0.06
Glutamate (AMPA) (rat)	0.00
Glutamate (kainate) (rat)	0.00
Glutamate (NMDA agonist site) (rat)	0.00
Glutamate (NMDA glycine site) (rat)	0.81
Glutamate (NMDA phencyclidine site) (rat)	0.70
Glutamate (NMDA polyamine site) (rat)	0.00
Glycine (strychnine-sensitive) (rat)	0.06
Histamine H ₁ (human)	0.00
Histamine H ₂ (human)	3.75
Histamine H ₃ (human)	9.07
Imidazoline (central) (rat)	3.26
IP ₃ (rat)	1.42

K ⁺ channel K _A (rat)	0.00
K ⁺ channel K _{ATP} (rat)	2.57
K ⁺ channel SK _{Ca} (rat)	6.24
Leukotriene B ₄ (guinea pig)	5.27
Leukotriene D ₄ (guinea pig)	0.00
Melatonin MT ₁ (human)	0.97
Monoamine transporter (Rabbit)	1.47
Muscarinic M ₁ (human)	0.26
Muscarinic M ₂ (human)	0.38
Muscarinic M ₃ (human)	4.83
Muscarinic M ₄ (human)	1.06
Muscarinic M ₅ (human)	6.41
Na ⁺ channel Site 2 (rat)	2.14
Neurokinin NK ₁ (human)	0.18
Neurokinin NK ₂ (human)	1.30
Neurokinin NK ₃ (human)	0.41
Neuropeptide Y ₁ (human)	1.86
Neuropeptide Y ₂ (human)	1.11
Neurotensin NT ₁ (human)	0.00
Norepinephrine transporter (human)	2.43
Nicotinic (human)	0.29
Opiate δ (human)	3.43
Opiate κ (human)	1.07
Opiate μ (human)	0.00
Opiate ORL ₁ (human)	5.85
PAF (rabbit)	8.62
Prostanoid EP ₂ (human)	0.44
Serotonin 5HT _{1A} (human)	2.86
Serotonin 5HT _{2A} (human)	7.38
Serotonin 5HT ₃ (human)	5.52
Serotonin transporter (human)	3.38

Sigma σ_1 (guinea pig)	3.74
Sigma σ_2 (guinea pig)	0.18
VIP ₁ (human)	0.00

CCK, cholecystokinin; CRF, corticotropin-releasing factor; GABA, 4-aminobutanoic acid; AMPA, 2-amino-3-(3-hydroxy-5-methyl-isoxazol-4-yl)propanoic acid; NMDA, N-methyl-D-aspartate; IP, inositol phosphate; ORL, opioid receptor-like; PAF, platelet activating factor; VIP, vasoactive intestinal peptide.