Supplemental Table 1. Selectivity of VU0152099 and VU0152100 were evaluated in radioligand binding assays in the LeadProfilingScreen® by MDS Pharma (www.mdsps.com). VU0152099 and VU0152100 were tested at 10μM for orthosteric radioligand displacement against a large panel of 68 discrete GPCRs, ion channels, transporters and enzymes to ensure a clean ancillary pharmacology profile.

		% Inhibition				% Inhibition	
Target	**Species**	**VU0152099**	**VU0152100**	**Target**	**Species**	**VU0152099**	**VU0152100**
Adenosine A1	human	28	-1	Histamine H_3	human	10	9
Adenosine A2	human	46	43	Imidazoline I_2, Central	rat	7	8
Adenosine A3	human	28	40	Interleukin IL-1	mouse	-19	-4
Adrenergic α_{1A}	rat	10	9	Leukotriene, Cysteinyl $CysLT_1$	human	-4	-6
Adrenergic α_{1B}	rat	-7	-7	Melatonin MT_1	human	15	20
Adrenergic α_{1D}	human	1	1	Muscarinic M_1	human	-3	0
Adrenergic α_{2A}	human	7	17	Muscarinic M_2	human	-1	-4
Adrenergic β_1	human	17	17	Muscarinic M_3	human	-1	-2
Adrenergic β_2	human	30	35	Neuropeptide Y Y_1	human	2	9
Androgen (testosterone)AR	rat	6	6	Neuropeptide Y Y_2	human	-2	2
Bradykinin B_1	human	13	1	Nicotinic Acetylcholine	human	6	-6
Bradykinin B_2	human	-5	-9	Nicotinic Acetylcholine α1, Bungarotoxin	human	-10	-4
Calcium channel L-type, benzothiazepine	rat	13	7	Opiate δ (OP1, DOP)	human	2	-13
Calcium channel L-type, dihydropyridine	rat	21	17	Opiate κ (OP2, KOP)	human	5	2
Calcium channel N-type	rat	-8	-4	Opiate μ (OP3, MOP)	human	2	-2
Dopamine D_1	human	6	7	Phorbol Ester	mouse	2	4
Dopamine D_{2S}	human	2	0	Platelet Activating Factor (PAF)	human	13	22
Dopamine D_3	human	-1	5	Potassium Channel [K_{ATP}]	hamster	3	6
Dopamine $D_{4.2}$	human	-13	-11	Potassium Channel hERG	human	5	5
Endothelin ET_A	human	-8	-8	Prostanoid EP_4	human	15	7
Endothelin ET_B	human	2	-4	Purinergic P_{2X}	rabbit	6	-4
Epidermal Growth Factor (EGF)	human	9	-5	Purinergic P_{2Y}	rat	15	14
Estrogen ERα	human	-1	-1	Rolipram	rat	36	29
G protein-coupled receptor GPR103	human	-3	-4	Serotonin (5-Hydroxytryptamine) 5-HT_{1A}	human	2	2
$GABA_A$ Flunitrazepam, central	rat	51	43	Serotonin (5-Hydroxytryptamine) 5-HT_3	human	-2	14
$GABA_A$ Muscimol, central	rat	6	9	Sigma σ_1	human	2	6
$GABA_{B1A}$	human	-7	12	Sigma σ_2	rat	-8	-3
Glucocorticoid	human	-3	8	Sodium Channel, Site 2	rat	11	20
Glutamate, Kainate	rat	3	-15	Tachykinin NK_1	human	-15	-18
Glutamate, NMDA, Agonism	rat	17	22	Thyroid Hormone	rat	-1	0
Glutamate, NMDA, Glycine	rat	3	2	Transporter, Dopamine (DAT)	human	27	46
Glutamate, NMDA, Phencyclidine	rat	2	3	Transporter, GABA	rat	26	13
Histamine H_1	human	14	7	Transporter, Norepinephrine (NET)	human	34	22
Histamine H_2	human	7	10	Transporter, Serotonin (5-Hydroxytryptamine) (SERT)	human	0	4