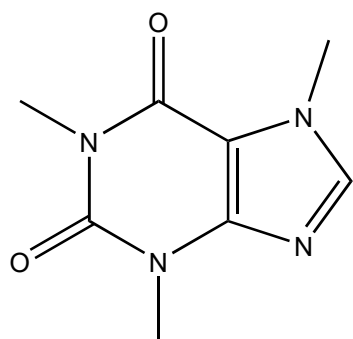
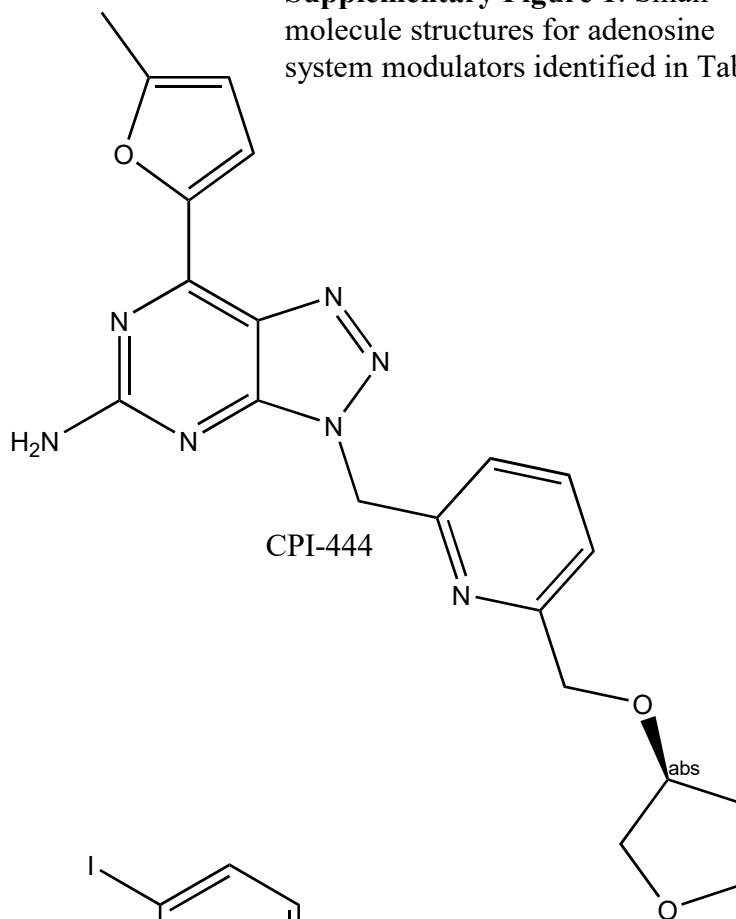


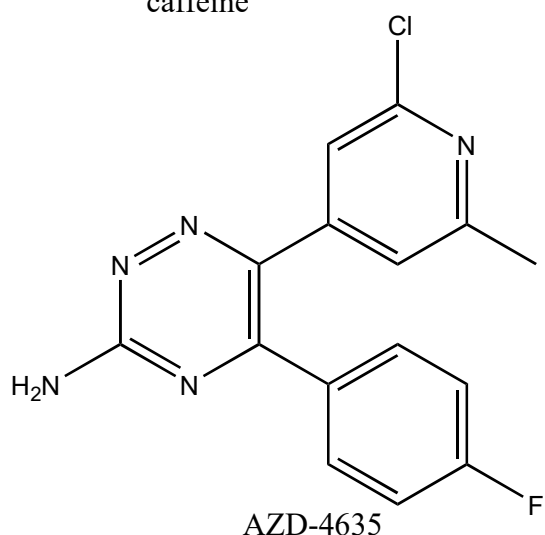
Supplementary Figure 1: Small molecule structures for adenosine system modulators identified in Table 3



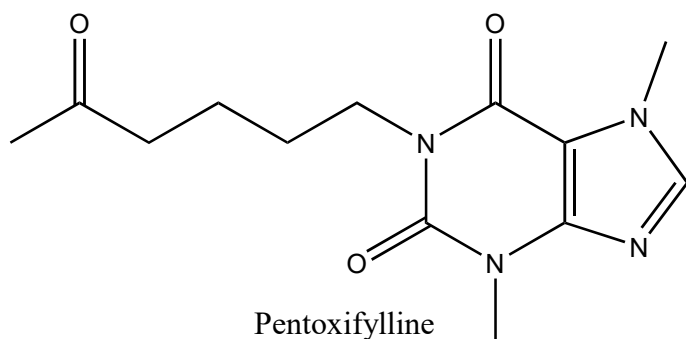
caffeine



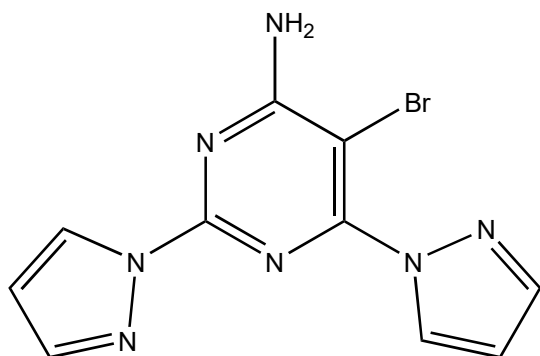
CPI-444



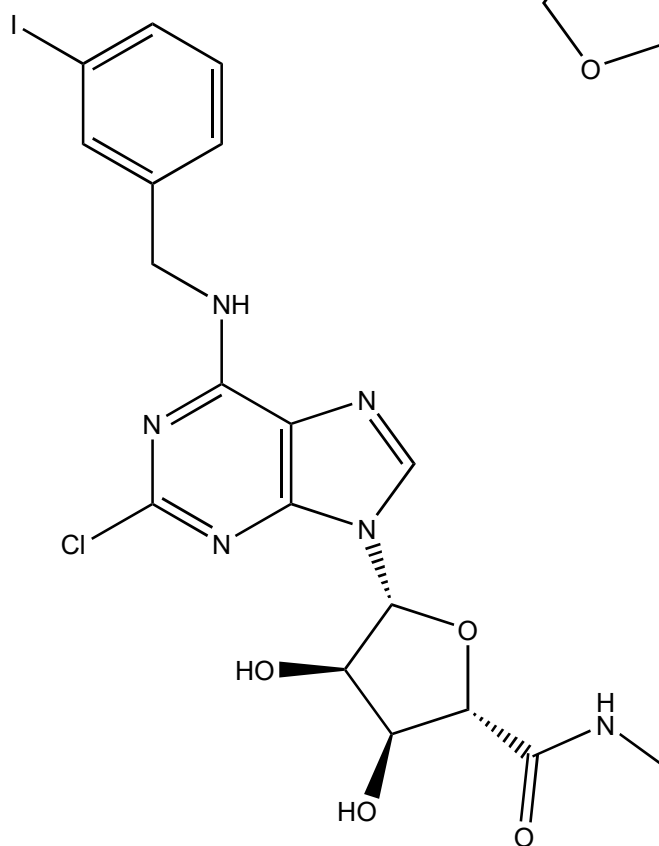
AZD-4635



Pentoxifylline



NIR-178



CF-102

Supplementary Table 1: Purinergic receptors. Nomenclature, associated ligands, G-proteins, and ions.

Protein name	Gene Name	Ligand	G-protein	Ions
Adenosine receptor A ₁	ADORA1	Adenosine	G _i and G _o	-
Adenosine receptor A _{2A}	ADORA2A	Adenosine	G _s ^c , G _{olf}	
Adenosine receptor A _{2B}	ADORA2B	Adenosine	G _s ^c	
Adenosine receptor A ₃	ADORA3	Adenosine	G _{i3} , G _q	
P2X purinoceptor 1	P2RX1	ATP	G _{αq}	Na ⁺ , K ⁺ , Ca ²⁺
P2X purinoceptor 2	P2RX2	ATP	G _{αq}	Na ⁺ , K ⁺ , Ca ²⁺
P2X purinoceptor 3	P2RX3	ATP	G _{αq}	Na ⁺ , K ⁺ , Ca ²⁺
P2X purinoceptor 4	P2RX4	ATP	G _{αq}	Na ⁺ , K ⁺ , Ca ²⁺
P2X purinoceptor 5	P2RX5	ATP	G _{αq}	Na ⁺ , K ⁺ , Ca ²⁺
P2X purinoceptor 6	P2RX6	ATP	G _{αq}	Na ⁺ , K ⁺ , Ca ²⁺
P2X purinoceptor 7	P2RX7	ATP	G _{αq}	Na ⁺ , K ⁺ , Ca ²⁺
P2Y purinoceptor 1	P2RY1	ADP	G _q	-
P2Y purinoceptor 2	P2RY2	ATP/UTP	G _{q, o, 12}	
P2Y purinoceptor 4	P2RY4	UTP	G _{q,o}	
P2Y purinoceptor 6	P2RY6	UDP	G _{q, 12/13}	
P2Y purinoceptor 11	P2RY11	ATP	G _{q, s}	
P2Y purinoceptor 13	P2RY13	ADP	G _{i/o}	
P2Y purinoceptor 14	P2RY14	UPD/UDP-glucose		

Purinergic receptor ligands, ions, and G-proteins adapted from ref [60-68]