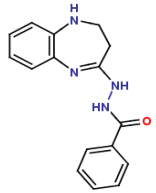
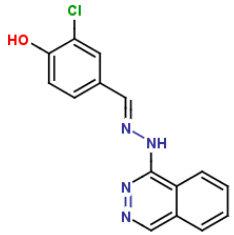
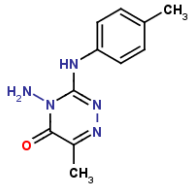
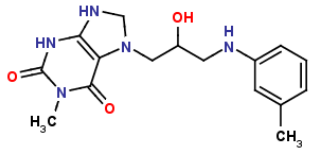
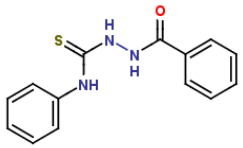
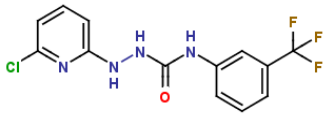
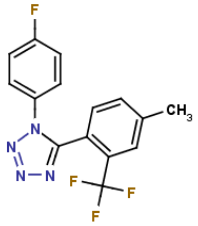
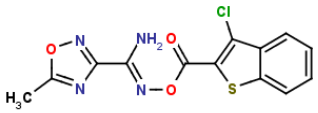
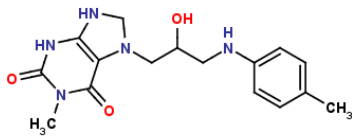
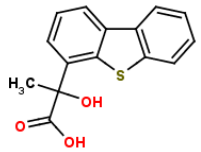
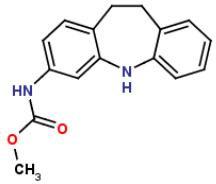
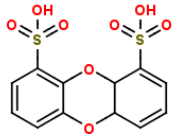
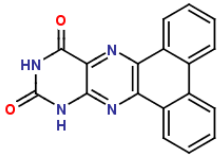
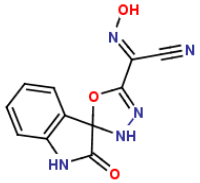
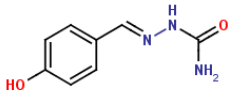
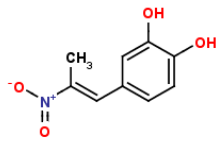
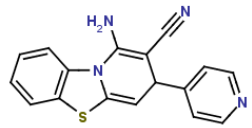
Supplementary Table S1 . Complete inventory of compounds tested for their anti-parasitic activity. Code T-1 to T-11 represent set of compounds whose target was Pf-Ed-TRS, while A-1 to A-6 targeted Pf-Ed-ARS.

Sr. No.	Code	IUPAC names	2D structures	Docking Score	IC_{50} (µM)
1.	**T1**	**N'-(2,3-dihydro-1H-1,5-benzodiazepin-4-yl)benzohydrazide**		-9.2	**>150**
2.	**T2**	**3-chloro-4-hydroxybenzaldehyde 1-phthalazinylhydrazone**		-8.7	**≈75**
3.	**T3**	**4-amino-6-methyl-3-(4-toluidino)-1,2,4-triazin-5(4H)-one**		-8.4	**>150**

4.	**T4**	**7-[2-hydroxy-3-(3-toluidino)propyl]-1,3-dimethyl-3,7-dihydro-1H-purine-2,6-dione**		-8.6	**>150**
5.	**T5**	**2-(2-cyclohexen-1-ylcarbonyl)-N-phenylhydrazinecarbothioamide**		-8.4	**>150**
6.	**T6**	**2-(6-chloro-2-pyridinyl)-N-[3-(trifluoromethyl)phenyl]hydrazinecarboxamide**		-8.8	**>150**
7.	**T7**	**5-[1-(4-fluorophenyl)-1H-tetraazol-5-yl]-4-(trifluoromethyl)pyrimidin-2-amine**		-8.8	**>150**
8.	**T8**	**N'-{[(3-chloro-1-benzothien-2-yl)carbonyl]oxy}-5-methyl-1,2,4-oxadiazole-3-carboxamidamide**		-8.8	**≈ 120**
9.	**T9**	**7-[2-hydroxy-3-(4-toluidino)propyl]-1,3-dimethyl-3,7-dihydro-1H-purine-2,6-dione**		-8.7	**≈ 115**

10.	**T10**	**2-dibenzo[b,d]thien-4-yl-2-hydroxypropanoic acid**		-8.3	**>150**
11.	**T11**	**methyl 10,11-dihydro-5H-dibenzo[b,f]azepin-3-ylcarbamate**		-8.7	**>150**
12.	**A1**	**1,9-oxanthrenedisulfonic acid**		-8	**≈ 120**
13.	**A2**	**phenanthro[9,10-g]pteridine-11,13(10H,12H)-dione**		-9	**>150**
14.	**A3**	**5-[cyano(hydroxyimino)methyl]-2'-oxo-1',2,3,3'-tetrahydrospiro[1,3,4-oxadiazole-2,3'-(2'H)-indole]**		-8.1	**≈ 95**
15.	**A4**	**4-hydroxybenzaldehyde semicarbazone**		-7.4	**>150**

16.	**A5**	**4-{2-nitro-1-propenyl}-1,2-benzenediol**		-7.9	**≈ 8**
17.	**A6**	**1-amino-3-(4-pyridinyl)-3H-pyrido[2,1-b][1,3]benzothiazole-2,4-dicarbonitrile**		-7.4	**>150**