**Table S6.** 32 individually validated hits

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| --- |
| ***T. cruzi*-active hits** |
| **Description: 44841.tif** | **Description: 163796.tif** | **Description: 40963.tif** | Description: 161256.tif |
| **1**a (2)b 0.017 μMc | **3** (4) 0.20 μM | **5** (4) 0.26 μM | **6** (3) 0.08 μM |
| Description: 160048.tif | Description: 44545.tif | Description: 149397.tif | Description: 174374.tif |
| **9** (4) 0.58 μM | **11** (5) 0.76 μM | **13** (5) 1.30 μM | **15** (5) 1.93 μM |
| **CYP51 binding hits** |
| Description: 155329.tif | Description: 29954.tif | Description: 196873.tif | Description: 178582.tif |
| (4) | (5) | (5) | (5) |
| Description: 153532.tif | Description: 165248.tif | Description: 49417.tif | Description: 180241.tif |
| (5) | (4) | (4) | (5) |
| Description: 148650.tif | Description: 195178.tif | Description: 176457.tif | Description: 168951.tif |
| (5) | (5) | (5) | (5) low solubility |
| Description: 171282.tif | Description: 153987.tif | Description: 174833.tif | Description: 174366.tif |
| (5) | (5) | (5) | (5) |
| Description: 150381.tif | Description: 154945.tif | Description: 164949.tif | Description: 152309.tif |
| (4) | (4) | (4) | (5) low solubility |
| Description: 108597.tif | Description: 153532.tif | Description: 182895.tif | Description: 182184.tif |
| (4) | (5) | (5) | (5) |

a Rank in *T. cruzi* assay; bHTS binding score is given in parentheses; cEC50 versus *T. cruzi* parasites are in μM.