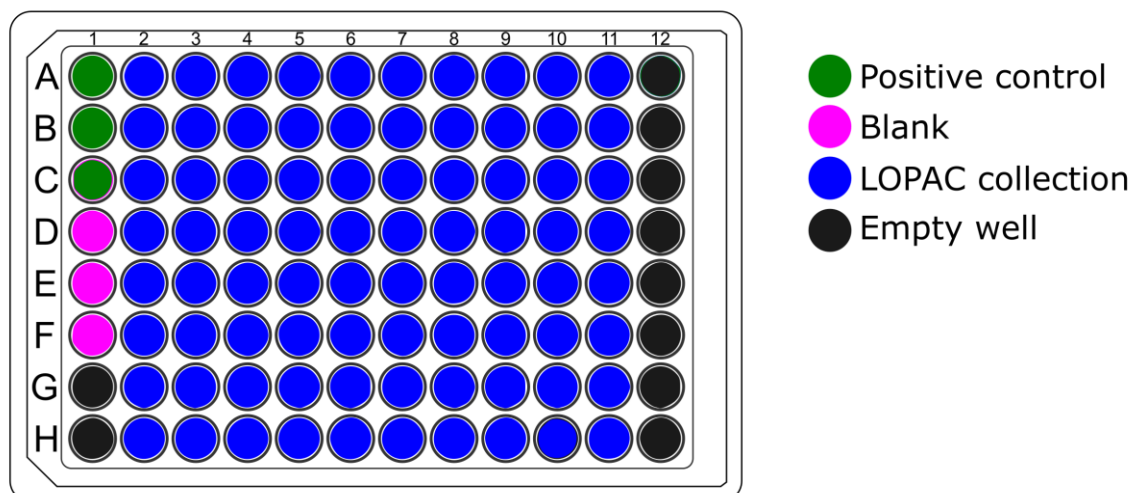
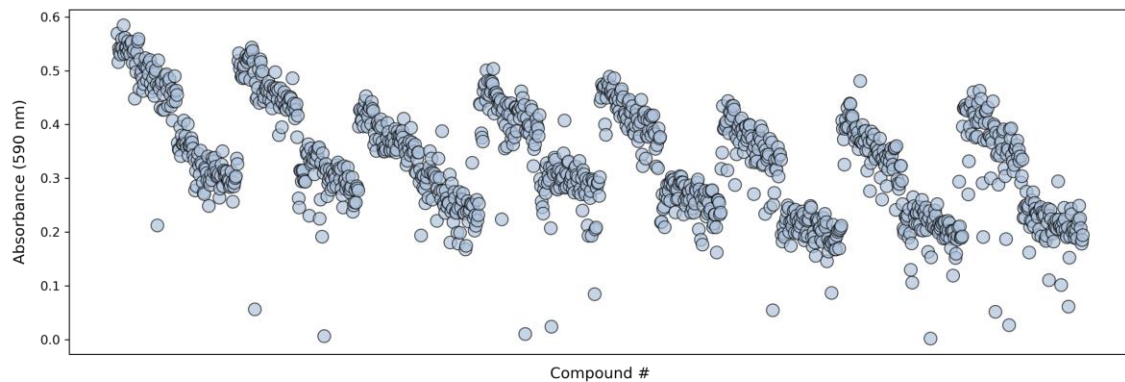
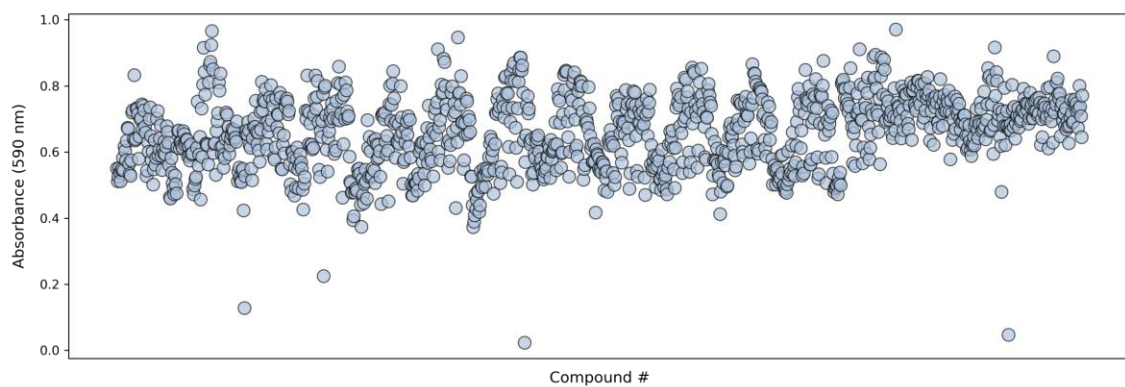


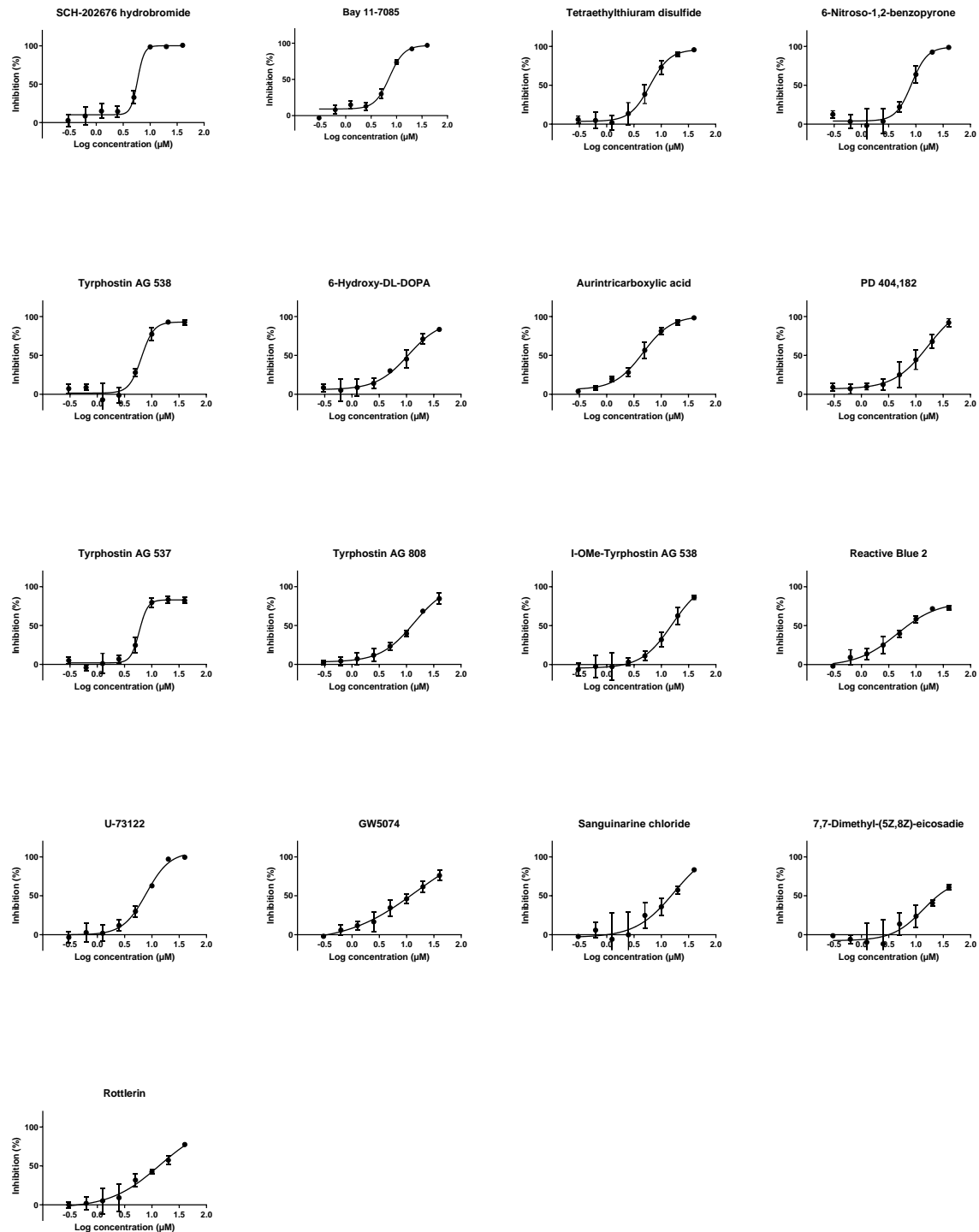
Supplementary figures



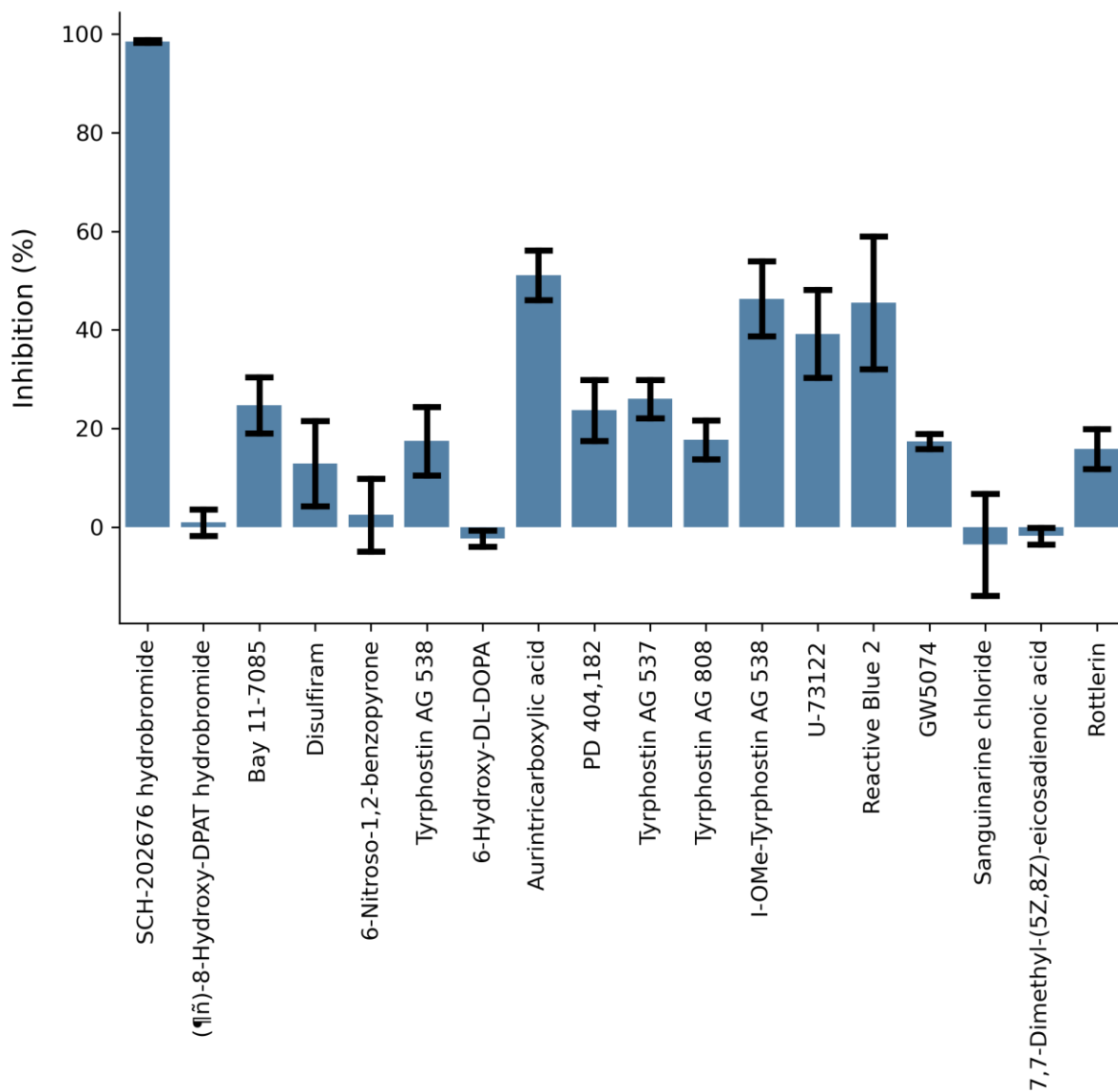
Supplementary figure 1. LOPAC¹²⁸⁰ screening plate layout: the LOPAC¹²⁸⁰ collection was arrayed across sixteen 96-well plates. Each plate contained three positive (no-inhibitor) controls (green), three blank wells (pink) and 80 wells containing compounds from the library (blue). The remaining wells were unused.

A**B**

Supplementary figure 2. Raw values absorbance values of the LOPAC¹²⁸⁰ collection: **A)** A_{590} values derived post indigoidine synthesis by PptT-activated BpsA for 16 96-well plates, screened in pairs to identify candidate PptT inhibitors from the LOPAC¹²⁸⁰ collection. Clearly evident is the wave-like pattern arising due to the instability of PptT in aqueous media. **B)** A_{590} values derived post indigoidine synthesis for an equivalent set of 96-well plates to those presented in Panel A, only using pre-activated BpsA. These reactions did not contain PptT and correspondingly no wave-like pattern is discernible.



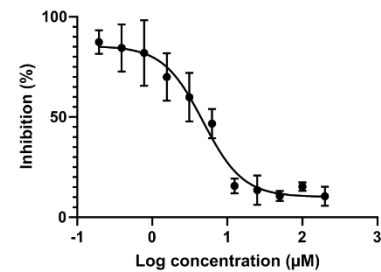
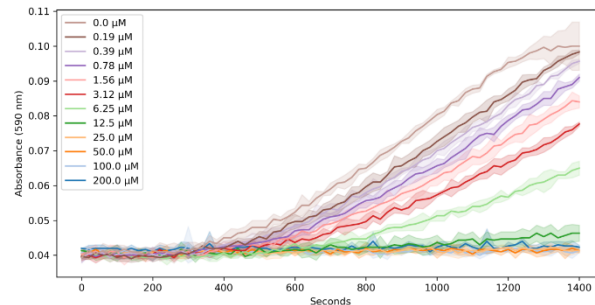
Supplementary Figure 3. EC₅₀ values for top compounds: A two-fold serial dilution from 40 μM to 0.625 μM for each compound was established across individual rows of a 96 well plate. Graphpad Prism was then used to fit a four parameter dose-response curve to determine EC₅₀ values. In each case, data was derived from the mean of three independent replicates and error bars represent the standard deviation.



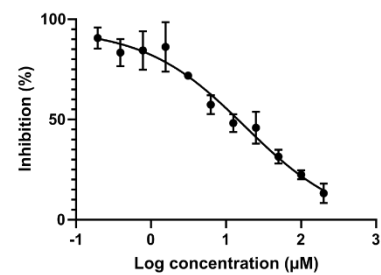
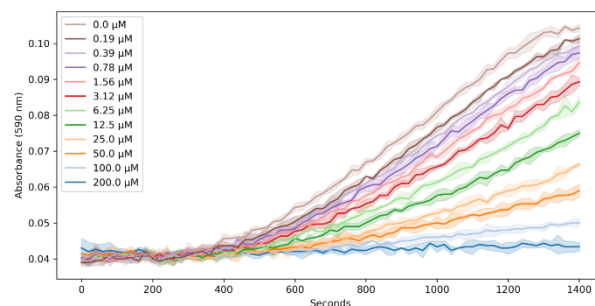
Supplementary Figure 4. Inhibition of *holo*-BpsA at a candidate -inhibitor concentration of 40 μ M:

The inhibition of *holo*-BpsA by compounds identified as candidate PptT inhibitors at 20 μ M was determined by re-screening at 40 μ M. In each case, data was derived from the mean of three independent replicates and error bars represent the standard deviation.

A



B



Supplementary Figure 5. Kinetic determination of EC_{50} values: **A)** The rate of BpsA activation by PptT diminishes with increasing levels of 6-NOBP. Data were recorded every 20 s and are the average of three replicates. The lighter shaded boundaries around each set of A_{590} data (left panel) represent one standard deviation. The right panel shows the graph used to derive EC_{50} values from the mean A_{590} data. Data was derived from the mean of three replicates, and the error bars in the right panel represent one standard deviation. **B)** The rate of BpsA activation by PptT diminishes with increasing levels of Sanguinarine chloride. Data were recorded every 20 s and are the average of three replicates. The lighter shaded boundaries around each set of A_{590} data (left panel) represent one standard deviation. The right panel shows the graph used to derive EC_{50} values from the mean A_{590} data. Data was derived from the mean of three replicates, and the error bars in the right panel represent one standard deviation.