

Application

Zen-Opti is intended for drug discovery by fragment screening. It is suitable for all technologies that can detect weak binding (for example, NMR, SPR, thermal shift, crystallography). It may also be used for high concentration biochemical screening.

Physical design

- The library contains 160 compounds.
- The library is distributed across 2 96 well plate containing dry compound.

Library preparation

- We recommend centrifuging the plate before use to ensure all compound is at the bottom of the well. Not all compounds form dry films that adhere to the plate.
- Please remove lid carefully to ensure compound remains in the wells.
- Addition of 50µL of solvent to each well will yield a 200mM solution. For Zen-Library 2, all compounds are soluble to 200mM in DMSO, DMSO/10%HCl, Water or Water/10%HCl. Please check the attached excel sheet or SD file for the appropriate solvent for each compound.
- The standard protocol for dissolution includes shaking the plate. Heat may be required for some compounds to dissolve. Heat the plate at 42° C in the shaker or by your internal standard method to ensure complete dissolution.
- We recommend that the dry compound plates are stored at room temperature. It is important that the area does not have a lot of moisture. For long term storage, a desiccator may be used. Once dissolved, daughter plates should be prepared and stored at 4 or -20 deg to minimize freeze-thaw.

Performing the fragment screen

- The compounds in this library are soluble to ≥ 1 mM in aqueous solution which is sufficient for a typical screen
- Compounds may be added directly to the screening reaction or prepared through serial dilution

For technical support, please contact erika@zenobiatherapeutics.com