

Fragment-based lead generation

Efficient generation of high-quality starting points

Benefits

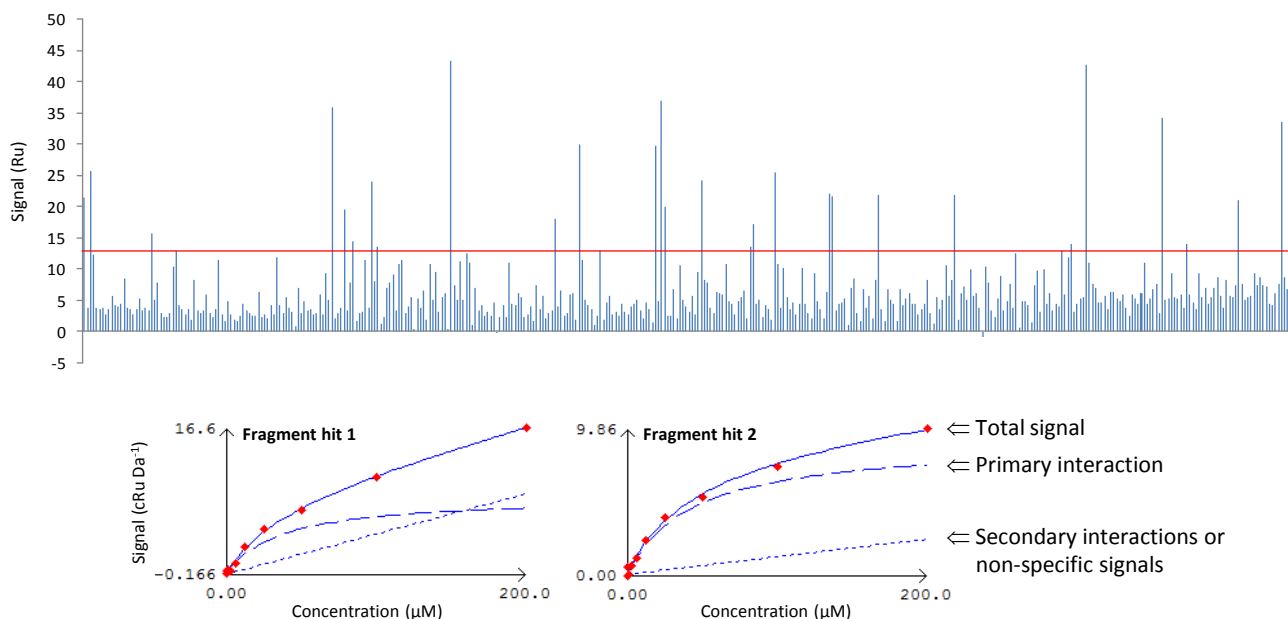
The binding site of a target protein can be thoroughly sampled by screening of well-designed fragment libraries containing only a few thousand members. Moreover, fragment-based methods tend to generate more efficient starting points for lead generation than traditional HTS-based methods.

Deliverables

- High-quality fragment leads amenable for rapid and efficient lead generation
- Initial SAR around the fragment hits

Technical details

Fragment screening at Beactica is based on the efficient use of SPR biosensor-based techniques. Beactica's proprietary algorithms for fragment ranking enables superior prioritization of hits. Clients may choose from screening Beactica's proprietary 2000-member fragment library or their own libraries.



Examples of initial single-concentration fragment screening data for PKA with the detection limit indicated by a red line (top). Dose-response curves are shown for two selected hits (bottom). Experimental data points (red) are theoretically described by a modified Langmuir isotherm that distinguishes a primary interaction from secondary interactions or non-specific signals.



Beactica – Interactions understood. Leads improved.

Beactica represents scientific excellence in Surface Plasmon Resonance (SPR) biosensor-based interaction analysis for small molecule drug discovery programmes. We offer expertise and services in the area of lead discovery and optimization using our proprietary drug discovery platform.

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