



# Avacta Analytical

Biophysical Characterization of Therapeutic Proteins and Antibodies

30<sup>th</sup> October 2012

# Avacta Analytical



- Specialists in biophysical analysis of therapeutic antibodies and proteins
- Characterise your molecule pre- and post- change for
  - Comparability
  - Stability
  - Formulation
  - Problem solving – aggregation issues
- Techniques on offer
  - Analytical Ultracentrifugation (AUC), DLS, SEC
  - Circular Dichroism, FTIR
  - DSC, ITC, Fluorescence
  - Mass Spec
  - Optim 1000

# Optim 1000



- Designed and engineered by Avacta
- Simultaneous **fluorescence** and **light scattering** analyses on a temperature controlled heating plate
  - Protein Transition Temperature ( $T_m$  – through fluorescence)
  - Onset of Aggregation ( $T_{agg}$  – through light scattering)
- **High throughput** - Provides rapid measurements on 48 samples simultaneously, up to 96 per day
- **Low sample volume** - 9  $\mu$ l.