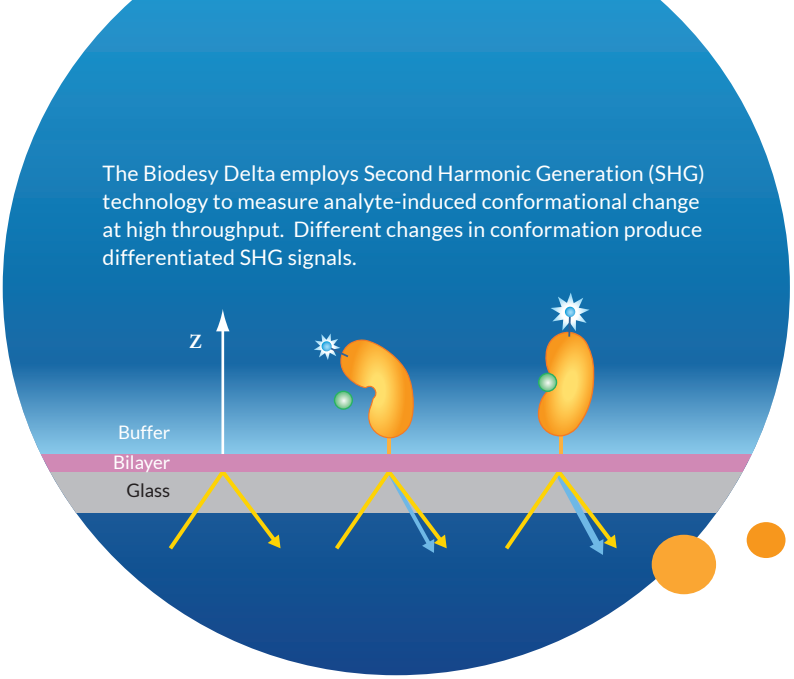
# The Biodesy® Delta System

## Conformational Change: Measure What Matters


BIODESY

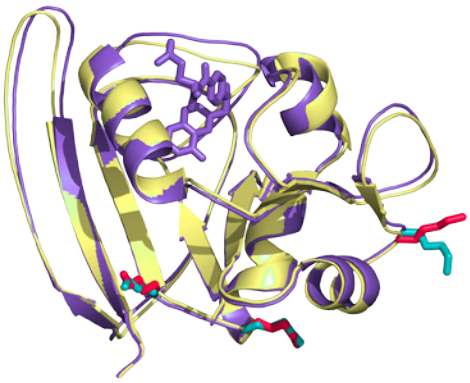
*The Biodesy Delta measures conformational change at high throughput. It enables drug discovery for a wide range of molecular targets, regardless of mass or structure, and their interactions with a wide range of analytes, including fragments, small molecules, antibodies and other proteins.*

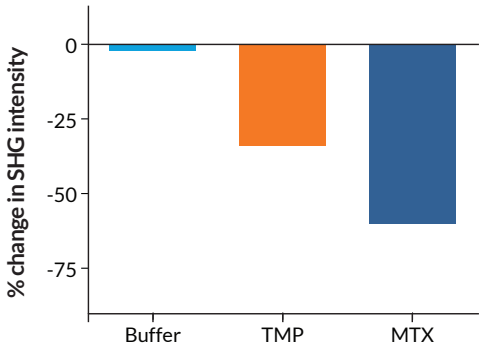



## Applications

- **Primary and secondary screening**
  Identify and differentiate hits including allosteric and conformation-specific modulators
- **Structure-activity relationship studies**
  Integrate understanding of structural and functional change
- **Mechanism of action studies**
  Identify order and mechanism of binding
- **Characterization of molecular interactions**
  Study protein-ligand, protein-protein, protein-RNA/DNA, etc.

## Conformational Signatures: Distinguishing Compounds upon Binding





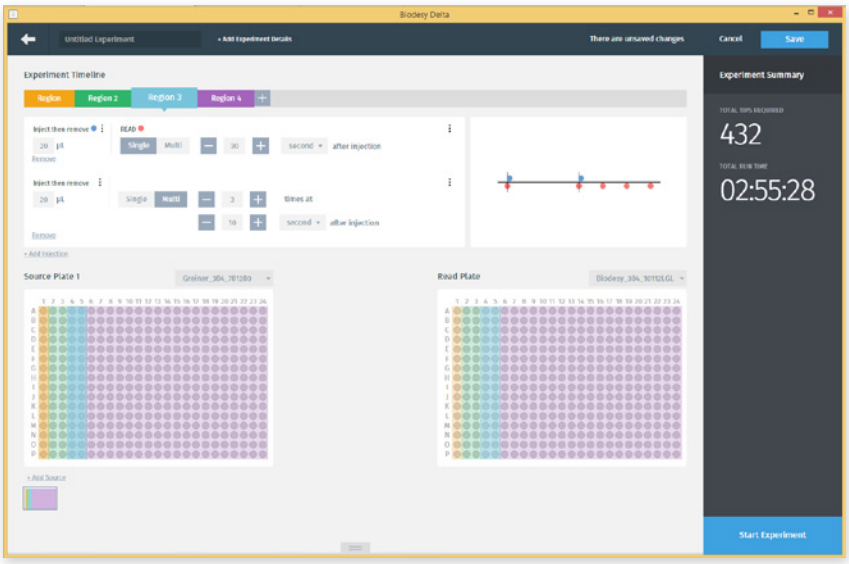

Overlap of apo- and MTX-bound DHFR crystal structures (yellow and purple, respectively). The cyan and red residues are the labeled lysine sites. SHG can distinguish compounds based on conformation specific binding.

## Biodesy Delta Key Features

- Uniquely measure and differentiate protein conformational change in real time
- High throughput: 384-well plate format enables thousands of measurements per day
- Easy to use: automated, walk-away assay and intuitive software for easy experimental setup and operation

## Delta Software

- Intuitive interface to quickly program both basic and complex experiments
- Ability to save protocols for commonly-run experiments
- Straightforward data presentation for rapid visual analysis
- Data export to common file formats





## Delta Plates and Reagents

- Proprietary 384-well plate with integrated optical coupling
- Your choice of Ni-NTA, Avidin, or Phosphatidylserine bilayer surfaces feature specialized lipids to preserve protein function and provide convenient surface attachment for His-tagged, biotinylated, or membrane-associated targets.
- SH-active dyes available in both amine-reactive (lysine) and thiol-reactive (cysteine) forms


**For more information on the Delta system and its applications, visit biodesy.com, or contact Biodesy at 650.871.8716**

# System Specifications

## Assay Specifications

| | |
|---|---|
| Real-time | ✓ |
| Throughput/day | 1,000+ |
| Native protein environment | ✓ |
| Functional readout | ✓ |
| HTS-compatible | ✓ |
| No restriction on protein size | ✓ |
| Protein consumption | < 1 µg |
| Plate compatibility | 384-well |
| Supports multi-ligand/protein systems | ✓ |
| Compound affinity range | nM–mM |
| Dispense volume range | 0–70 µL |

## Physical Specifications

| | |
|---|---|
| Dimensions (WxHxD, cm) | 142x193x83 |
| Weight (kg) | 480 |
| Electrical Requirements | 110–220 V |
| Safety | CE |
| Operating Environments | 15–25 °C |
| Laser | Class 1 Laser Product with Embedded Class 4 Source |

BIODESY

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