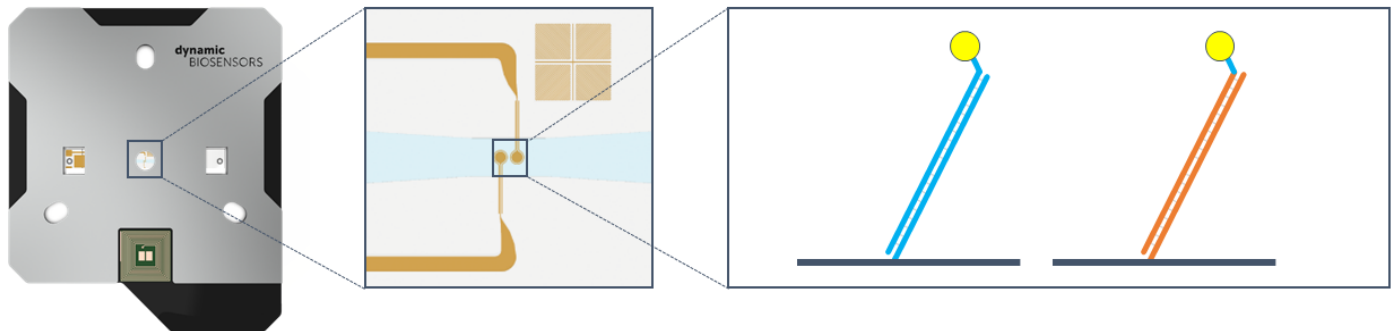


Product Description

Product Code	heliX® Adapter Biochip
Suitable for	switchSENSE® heliX, heliX+
Storage	Store at 2-8 °C, dry in the dark
Layout	Anchor strand 1 on spot 1; anchor strand 2 on spot 2
Grade	Standard

heliX® Adapter Biochips are versatile tools to analyze protein-protein, protein-small molecule, DNA/RNA-protein and DNA/RNA-small molecule interactions.

Biochip Design



Biochip with integrated
RFID for traceability

2 sensor spots in 1 flow
channel;
sensor spot 1: target;
sensor spot 2: reference

Sensor spot 1 is
functionalized with anchor
strand AS1
(non-complementary to
anchor strand AS2)

Sensor spot 2 is
functionalized with anchor
strand AS2
(non-complementary to
anchor strand AS1)

Detection spot 1 is functionalized with anchor strand 1 (AS1) and spot 2 is functionalized with anchor strand 2 (AS2). The 3'-end of the DNA is fixed on the surface while the 5'-end is label-free.

DNA for the Biochip

Each Biochip comes with unmodified complementary DNA.

Application Areas

Binding Kinetics	k_{on} , k_{off} , K_D
Binding Affinity	K_D , titration curve, n (Hill coefficient)
Conformational Change	relative change of hydrodynamic diameter
Melting & Thermodynamics	T_M , ΔG , ΔH , ΔS
Multimers & Aggregation	Monomer-dimer discrimination, aggregation
Bispecific Binders & Avidity	Binding affinity/avidity/kinetics;

Biochip Handling

The biochip is ready to use. For research use only.

Avoid touching or picking up the biochip with your hands as this may cause electrostatic discharge, which harms the biolayer. Instead, always use the vacuum tweezers provided with the instrument when handling the biochips.

After installing the biochip in the DRX instrument and before starting an experiment be sure that the selected channel has been passivated with passivation solution (Order No. SOL-PAS-1-5).

More information about biochip storage and handling can be found in the document “**switch**SENSE® Biochips Storage Information” – [DOWNLOAD HERE](#).

Grade I Standard

Standard grade chips are batch tested, which means selected chips undergo comprehensive quality control (switching dynamics, voltage-response of the DNA layer, and fluorescence levels). In addition, the fluorescence levels on each electrode are tested to be within specifications.

Compatible Functionalization Kits

All compatible functionalization kits for this biochip are listed on our website:

www.dynamic-biosensors.com/reagents/

Contact

Dynamic Biosensors GmbH

Lochamerstr. 15
 82152 Martinsried/Planegg
 Germany

Order Information

Phone: +49 89 89 74 544 0
order@dynamic-biosensors.com

Dynamic Biosensors Inc.

9705 Carroll Centre Road, Suite 100
 San Diego, CA 92126
 USA

Technical Support

Phone: +49 89 89 74 544 66
support@dynamic-biosensors.com

helix® – Adapter Biochip_v20191002

© 2019 Dynamic Biosensors GmbH | Dynamic Biosensors Inc. All rights reserved.

Munich DE | San Diego, CA USA | Warszawa, PL | Tokyo JP | Singapore SG