USER MANUAL
CK-TN-1-B96

dynamic BIOSENSORS

NTA kit 1

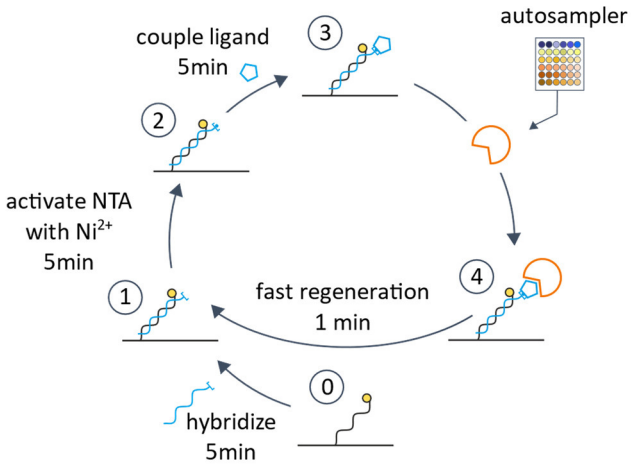
Tris-NTA reagents for capturing His-tagged molecules with B96mer

Key Features

- Capturing of His-tagged peptides and proteins
- Compatible with all **switch**SENSE®
  Multi-purpose biochips carrying sequence A96 and B96
- Suitable for parallel measurements via DNA encoded addressing
- Includes reagents for 20 x 10 functionalizations

Workflow Overview

Workflow Overview with Tris-NTA nanolevers – normal regeneration



⓪→①

Functionalization of the **switch**SENSE® biochip with Tris-NTA carrying nanolevers.

①→②

Activation of Tris-NTA with Ni^{2+} ions

②→③

His-tagged Ligand Binding

③→④

Interaction Measurement

④→①

Fast regeneration (EDTA)

Important Notes

- **Note:** His-tagged proteins slowly dissociate from Tris-NTA. Hence, very slow dissociations (k_{OFF} < 1E-3s^{-1}) cannot be measured with this set-up.
- For fast regeneration the surface will be regenerated by washing with 100 mM EDTA to remove the His-tagged protein but keep the Tris-NTA.
- For more information please email to **support@dynamic-biosensors.com**.

Product Description

Order Number **CK-TN-1-B96** (nanolever sequence B96)

TABLE 1 | Contents and storage information

Material	Cap	Amount	Storage	Comment
cNL-A96 (400 nM in TE40[1])	yellow	4 x 100 µL	-20°C	
cNL-B96-NTA (400 nM in TE40[1])	red	20 x 20 µL	-20°C	
EDTA solution (100 mM)	trans-parent	5 x 1.5 mL	-20°C	
Loading solution	trans-parent	5 x 1.5 mL	-20°C	

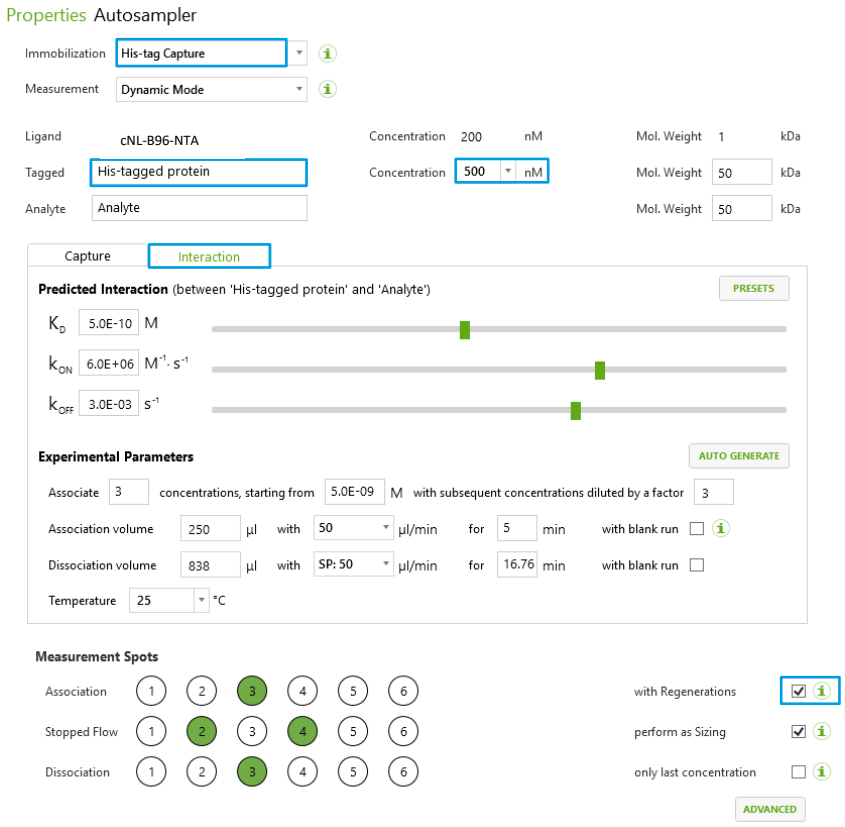
For *in vitro* use only.

Please check date of expiry on the kit. Products are shipped at ambient temperature.
The kit contains reagents sufficient for 20 new hybridizations and 200 fast regenerations.

[1] 10 mM Tris, 40 mM NaCl, 0.05 % Tween20, 50 µM EDTA, 50 µM EGTA

Assay Setup in switchBUILD

Setup a Kinetic Experiment with His-tag Capture



1) Selet “His-tag Capture“ as immobilization method.

   → The ligand will automatically update to cNL-B96-NTA.

2) Enter the name and concentration of the his-tagged protein.

3) Set up the interaction of interest in the “Interaction” tab.

4) When “with regeneration“ is tagged, an EDTA regeneration will be performed removing the his-tagged protein from the surface. This is followed by a re-activating the NTA surface and immobilization of fresh ligand protein.

My Notes

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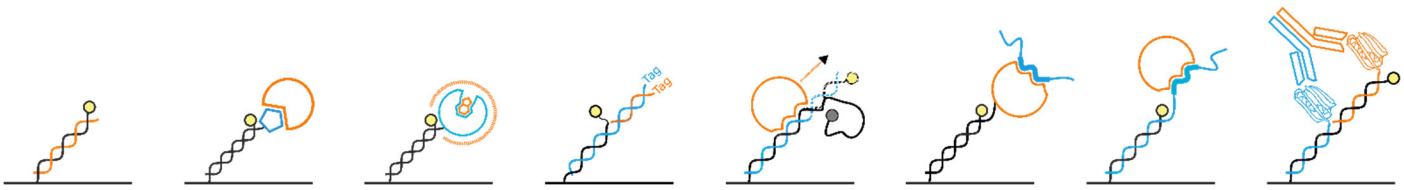

switchSENSE® is a proprietary measurement technology by Dynamic Biosensors GmbH.
Instruments and biochips are engineered and manufactured in Germany.