## NTA kit 1

Tris-NTA reagents for capturing His-tagged molecules with B48mer

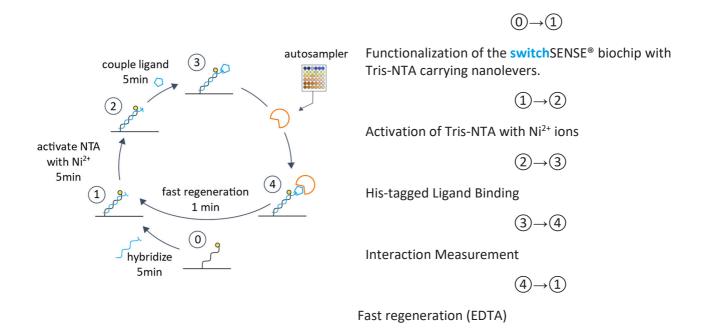
# **Key Features**

- Capturing of His-tagged peptides and proteins
- Compatible with all switch SENSE®
  Multi-purpose biochips carrying sequence A48 and B48
- 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



### **Important Notes**

- His-tagged proteins slowly dissociate from Tris-NTA. Hence, very slow dissociations (k<sub>OFF</sub> < 1E-3s<sup>-1</sup>) 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 <a href="mailto:support@dynamic-biosensors.com">support@dynamic-biosensors.com</a>.



## **Product Description**

Order Number

CK-TN-1-B48 (nanolever sequence B48)

TABLE 1 | Contents and storage information

Material	Сар	Amount	Storage	Comment
cNL-A48 (400 nM in TE40 <sup>1</sup> )	yellow	4 x 100 μL	-20°C	
cNL-B48-NTA (400 nM in TE40 <sup>1</sup> )	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.

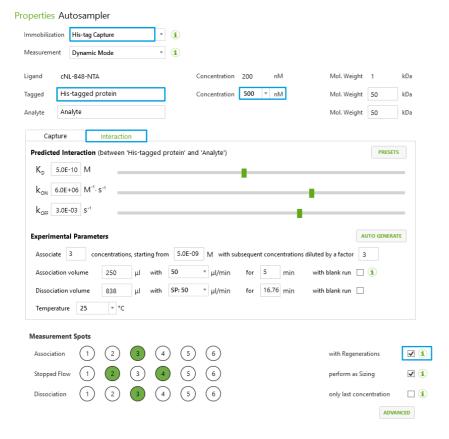
Please check date of expiry on the kit. Products are shipped at ambient temperature. The kit contains reagents sufficient for 20 new hybridizations and 200 fast regenerations.

 $<sup>^1</sup>$  10 mM Tris, 40 mM NaCl, 0.05 % Tween20, 50  $\mu M$  EDTA, 50  $\mu M$  EGTA



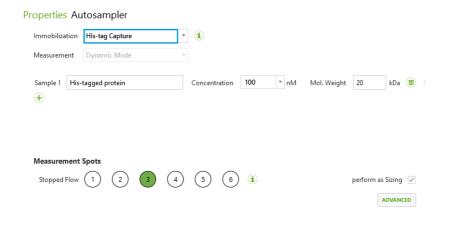
### **Assay Setup in switchBUILD**

### Setup a Kinetic Experiment with His-tag Capture



- 1) Selet "His-tag Capture" as immobilization method.
  - → The ligand will automatically update to cNL-B48-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 histagged protein from the surface. This is followed by a re-activating the NTA surface and immobilization of fresh ligand protein.

### Setup a Sizing Experiment with His-tag Capture



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



# **My Notes**



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# **My Notes**



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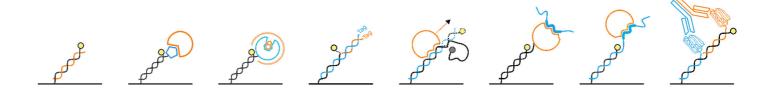
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**switch**SENSE® is a proprietary measurement technology by Dynamic Biosensors GmbH. Instruments and biochips are engineered and manufactured in Germany.

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