Certificate of Analysis

Lot	20250220 / PR01182
Reference #	MBIO-7973
Concentration	34.01 µM (1.1 mg/mL)
Amount	100 µg
Volume	91 µL

MBIO-7973 (Novobody™ anti-his Tag)

Description

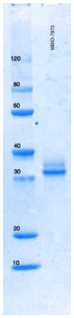
Molecule	Custom de novo protein (Novobody™) C-terminal Twin-Strep tag
Target	His-tag (N-terminal, C-terminal and Internal)
Characterization	Validated by SDS-PAGE, SEC-MALS, and BioLayer Interferometry.

Specifications

Physical Appearance	Liquid, clear
Molecular Weight	32.478 kDa
Purity	>90%
Buffer Conditions	PBS

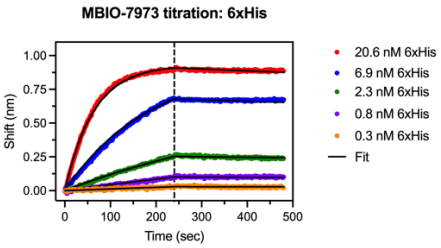
SDS-PAGE

Gel analysis of final purified sample after nickel affinity purification and size exclusion chromatography. Sample appears at the expected molecular weight of 32.4 kDa.



BioLayer Interferometry

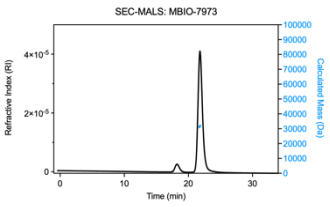
Sample binds target analyte (6xHis) with high affinity, slow off-rate, and an estimated K_d of 0.19 nM, Kon of 7.61E+005 1/Ms and Koff of 1.51E-004 1/s. Binding is shown at 20.5, 6.9, 2.3, 0.8, and 0.3 nM.



SEC-MALS

Size exclusion chromatography coupled with multi-angle laser light scattering demonstrates that the sample elutes at the expected molecular weight and is >95% monomer.

Expected Mass (kDa)	Calculated Mw (kDa)
32.5	31.7



Shipping, Storage, and Handling

The product is shipped frozen. Upon receipt, immediately store protein aliquots at -80°C. When ready to perform an assay, thaw tube at room temperature and sub-aliquot based on plans for future testing. Limit freeze thaws to 2 total freeze thaw cycles. The expected stability for the product is 12 months when stored at -80°C under sterile conditions.

Concentrations are indicated above and on the individual tubes. If an exact concentration is desired, Nanodrop (A280) the protein using PBS as a blank and calculate the concentration using the following Extinction Coefficient: 56840.00 M^{-1} cm^{-1}.

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