



Certificate of Analysis

Lot	20250318 / PR01226
Reference #	MBIO-7982
Concentration	27.9 μ M (1.74 mg/mL)
Amount per vial	0.1 mg
Volume per vial	58 μ L

MBIO-7982 (Novobody™ Duo, anti-Histidine tag)

Description

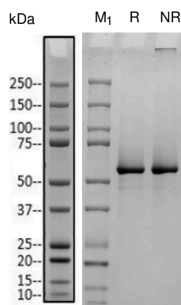
Molecule	Custom de novo protein (Novobody™ Duo), C-terminal Twin-Strep tag
Source	Expressed in CHO cells, Purified via Streptactin XT resin, SEC
Target	Histidine tag
Characterization	SDS-PAGE, SEC-HPLC, and BioLayer Interferometry

Specifications

Physical Appearance	Liquid, clear
Molecular Weight	62.2 kDa
Buffer Conditions	1X PBS, pH 7.2

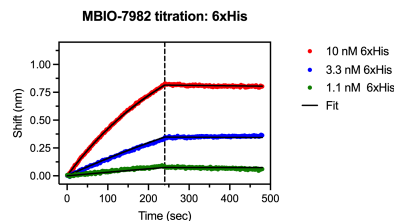
SDS-PAGE

Gel analysis of final purified sample after nickel affinity purification and size exclusion chromatography. Sample appears at the expected molecular weight of 62 kDa.



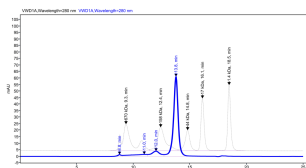
BioLayer Interferometry

Sample binds target analyte with high affinity, slow off-rate, and an estimated K_d of 0.15 nM, K_{on} of $3.35E+05$ 1/Ms and K_{off} of $4.89E-05$ 1/s when MBIO-7982 is loaded onto GatorBio Streptactin-XT Probes and his-tagged analyte (Acro Biosystems Cat #: CD8-H52H4) is titrated at 10, 3.3, and 1.1 nM.



SEC-HPLC

Size exclusion chromatography coupled with high performance liquid chromatography demonstrates that the sample elutes at the expected molecular weight and is >95% monomer.



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 the 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 the following Extinction Coefficient: 102680.00 $\text{M}^{-1}\text{cm}^{-1}$.

Contact Information:

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