



# Certificate of Analysis

Lot	20260224 / FLUOR015
Reference #	MBIO-8752-FITC
Concentration	11.78 $\mu$ M (0.72 mg/mL)
Amount per vial	0.1 mg
Volume per vial	139 $\mu$ L

## MBIO-8752-FITC (His-Tag NovoBody™ Duo (FITC conjugate) - Twin-Strep-Tag)

### Description

<b>Molecule</b>	Novobody™ Duo, Twin-Strep II Tag, FITC Conjugate
<b>Source</b>	Expressed CHO-S cells, Purified via Strep-Tactin® 4Flow® high capacity resin
<b>Target</b>	Histidine-Tag
<b>Characterization</b>	Validated by SDS-PAGE, SEC-HPLC, BioLayer Interferometry

### Specifications

<b>Physical Appearance</b>	Liquid, clear
<b>Molecular Weight</b>	61395.63 Da
<b>Buffer Conditions</b>	PBS, pH 7.4

#### SDS-PAGE

Gel analysis of final purified sample after Strep-Tactin affinity purification. Sample appears at the expected molecular weight of 61.4 kDa.

#### BioLayer Interferometry

Sample binds target analyte with an estimated  $K_d$  of 0.457 nM,  $K_{on}$  of  $2.55E+005$  1/Ms and  $K_{off}$  of  $1.16E-004$  1/s when 6X His Tag analyte (CD16a (V176) Protein, His Tag Acro: CAT #: CD-H52H4) is loaded onto GatorBio StrepTactin XT Probes and is titrated at 20 nM, 6.66 nM, and 2.22 nM.

#### SEC-HPLC

Size exclusion chromatography demonstrates that the sample elutes at the expected molecular weight and is >95% monomeric.

#### 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 the following Extinction Coefficient: 102680.00 M-1cm-1. This protein contains no cysteines. Apply necessary A280 corrections for fluorophore absorbance when measuring concentration.