



### A\*02:01 human $\beta$ 2m GILGFVFTL Tetramer

**Product description:** A\*02:01 (36,4kDa) is refolded with human  $\beta$ 2m (11,7kDa) and peptide GILGFVFTL (Influenza A matrix protein (58-66)) <https://www.iedb.org/epitope/20354>. Upon refolding, the complex is captured and subjected to gel filtration. Final product is analyzed by ELISA using a conformational antibody. SDS-PAGE gel shows final product is 100% biotinylation.

**Batch no:** RF163 A\*02:01 with human  $\beta$ 2m

**Epitope summary:** GILGFVFTL is a linear peptidic epitope (epitope ID 20354) studied as part of Matrix protein 1 from Influenza A virus. This epitope has been studied for immune reactivity in 214 publication(s), tested in 489 T cell assays, 5 B cell assays, 108 MHC ligand assays and has 3D structure(s) 5E6I, 2VLK, 2VLJ, 5JHD, 10GA, 2VLR, 5ISZ, 5TEZ, 5EUO, 4NT6, 2VLL and 1HHI.

**Buffer:** PSB, 50% Glycerol

**Concentration:** 0.5mg/ml – Determined by Nanodrop (280nm) and Coomassie staining

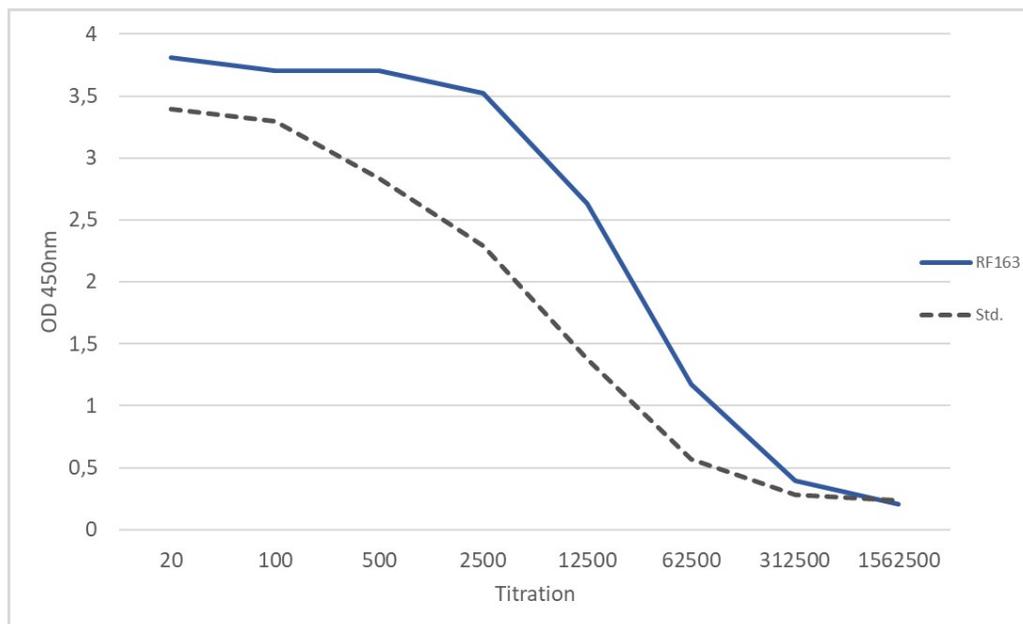
**Size:** 1 vial with 100 $\mu$ l product

**Physical state:** Liquid

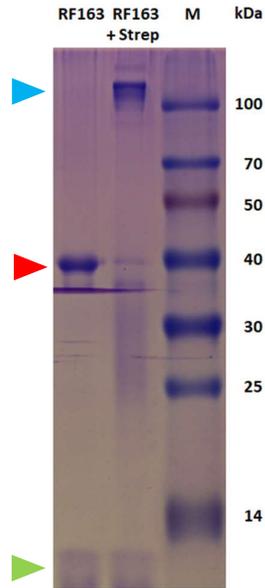
**Stabilizers:** 1% BSA

**Preservatives:** None

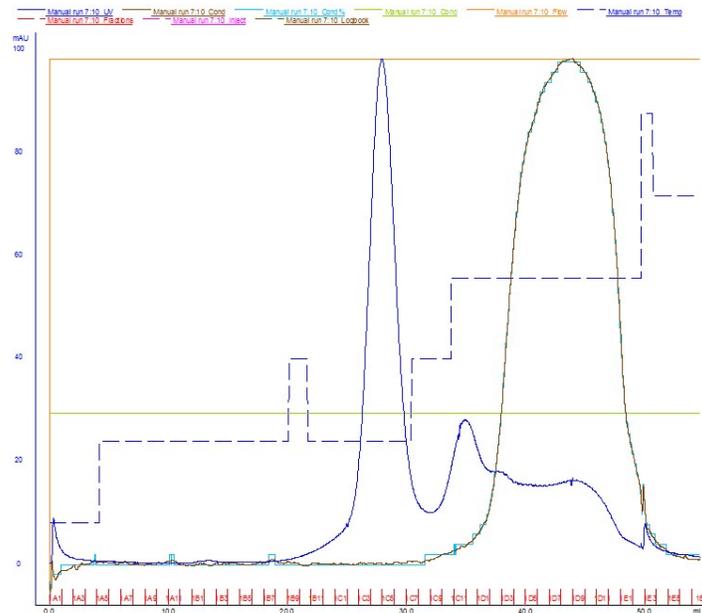
**Storage Conditions:** Store vial at -20° C prior to opening. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening.



**Fig. 1:** ELISA of final product of A\*02:01 human  $\beta$ 2m complex with Influenza A matrix protein (58-66) peptide and a standard curve for A\*02:01 human  $\beta$ 2m complexes. Sample is tested in dilutions 1/20, 1/100, 1/500, 1/2500, 1/12500, 1/62500, 1/312500 and 1/1562500



**Fig 2:** Coomassie staining shows detection of the A\*02:01 subunit at 36,4kDa (red arrow), human  $\beta$ 2m subunit at 11,7kDa (green arrow) and A\*02:01 + streptavidin (blue arrow). Purity by gel densitometry is set to be above 95%. Biotinylation is confirmed by gel shift assay with streptavidin and is above 95%. Ladder used is Blue Plus Protein Marker (cat no: DM101-01) from Transgen Biotech.



**Fig. 3:** Chromatogram of the gel filtration of A\*02:01 human  $\beta$ 2m complex after purification.

**User restriction:** Not for clinical use. Reagents are for research purpose only –not for use in diagnostic procedures or test on human.

**Manufactured:** by Immunitrack. Made in Denmark.