

Certificate of Testing

For Research Use Only – Not for Human Use

Protein Name: human ACE2-Fc
 Lot Number: 20200312
 Date of Manufacture: 20200312
 Final Formulation: 50mM Tris 100mM NaCl 0.1M Glycine pH 7.5
 Dilution Recommendation: N/A
 Storage Condition: 2-8°C or -80°C

Test	Result
Appearance	Clear solution, with no particles present
Protein Concentration (A ₂₈₀)	0.47 mg/mL (ε0.1%=1.9 E = 188005)
SDS-PAGE Coomassie Blue Stain, Non-Reduced	Bands at expected MW with glycosylation
SEC-HPLC	Peak at expected retention time, no aggregate or fragment observed. >99 % purity by peak area
Binding Assay	Binds RBD soluble as expected K _d = 25nM

Signature: _____

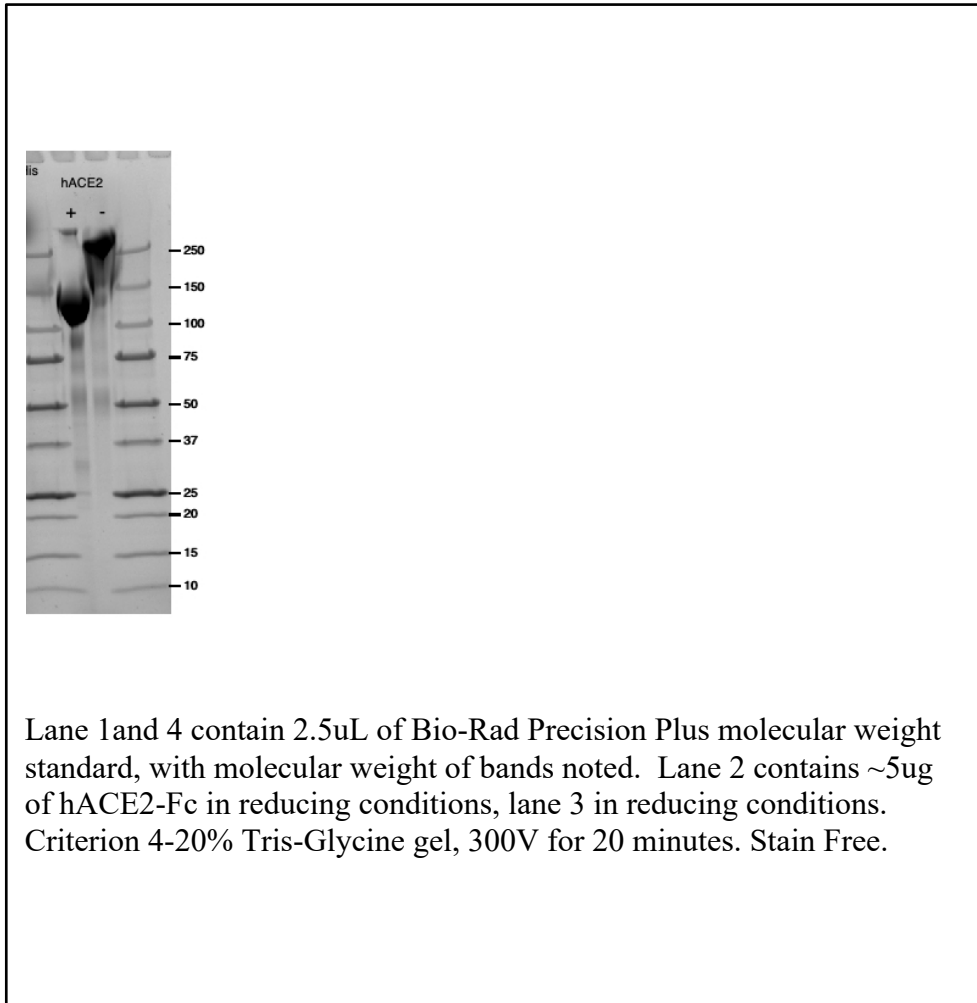
Title: RS Senior

Date: 20200320

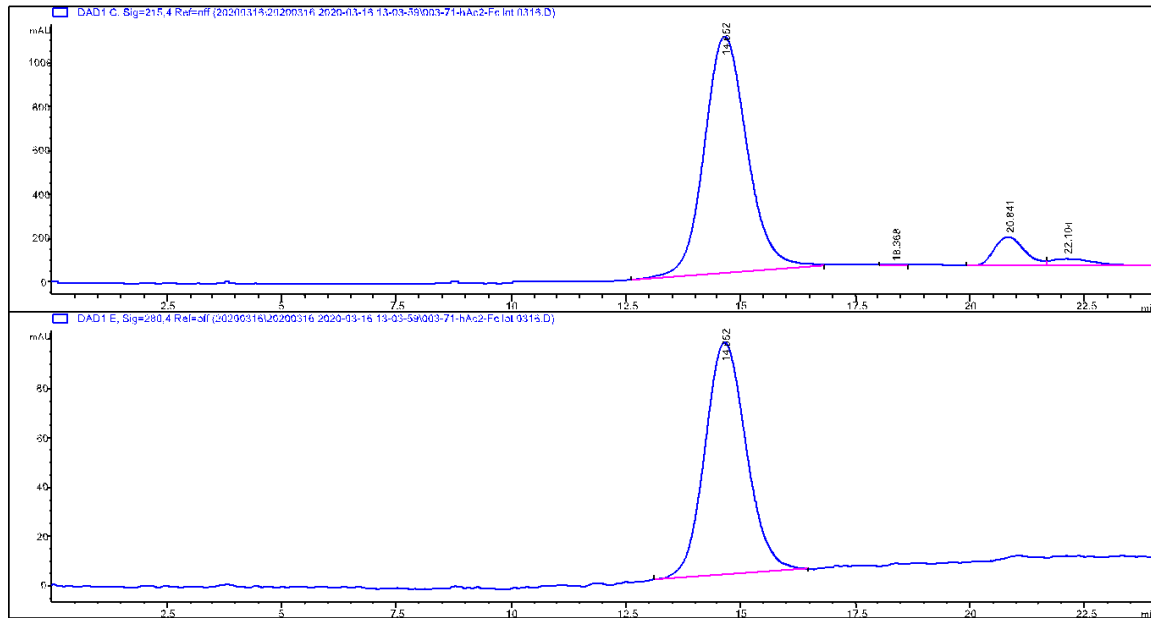
Attachments:

1. SDS-PAGE – nonreducing
2. SEC-HPLC chromatogram
3. Binding Assay
4. Amino Acid sequence

Attachment 1. SDS-PAGE



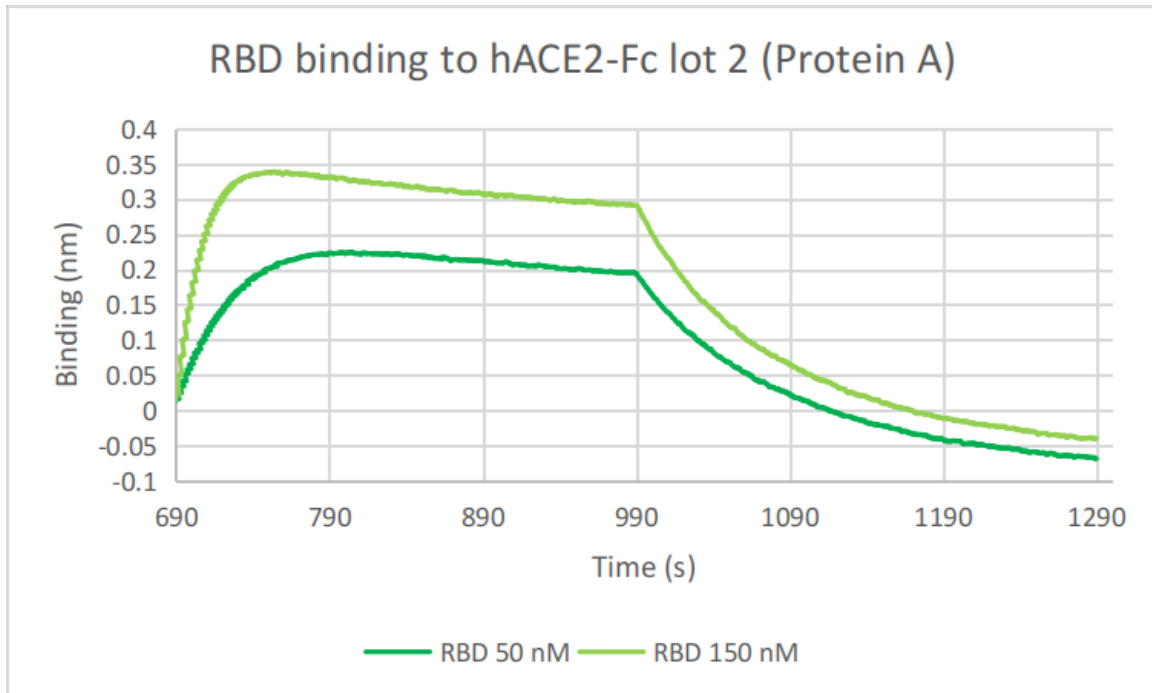
Attachment 2. SEC-HPLC



Single peak at expected retention time. GE Healthcare Superose 6 Increase, 1mL/min, 20mM Tris 150mM NaCl pH 7.4, monitored at 215nm (top) and 280nm (bottom). No aggregate or fragment, >99% purity by peak area.

Attachment 3. Binding Assay

Octet analysis shows binding affinity of soluble receptor binding domain increases proportionally to concentration, as expected.



Attachment 4. Amino Acid Sequence

STIEEQAKTFLDKFNHEAEDLFYQSSLASWNYNTNITEENVQNMNAGDKWSAFLKEQS
TLAQMYPLQEIQNLTVKLQLQALQQNGSSVLSEDKSKRLNTILNTMSTIYSTGKVCNPDN
PQECLLLEPGLNEIMANSLDYNERLWAWESWRSEVGKQLRPLYEEYVVLKNEMARANHY
EDYGDYWRGDYEVNGVDGYDYSRGQLIEDVEHTFEEIKPLYEHLHAYVRAKLMNAYPSYI
SPIGCLPAHLLGDMWGRFWTNLYSLTVPGQKPNIDVTDAMVDQAWDAQRIFKEAEKFF
VSVGLPNMTQGFWENSMLTDPGNVQKAVCHPTAWDLGKGDFRILMCTKVTMDDFLTA
HHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKSIGLLSPDFQEDN
ETEINFLKQALTIVGTLPFTYMLEKWRWMVFKGEIPKDQWMKKWWEMKREIVGVVEPV
PHDETYCDPASLFHVSNDYSFIRYYTRTLYQFQFQEQALCQAAKHEGPLHKCDISNSTEAG
QKLFNMLRLGKSEPWTLAENVVGAKNMNVRPLLNYFEPLFTWLKDQNKNSFVGWSTD
WSPYADPLVPRGSGGGGDPEPKSCDKTHTCPPCPAPPELLGGPSVFLFPPKPKDTLMISRTPE
VTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLN
GKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDI
AVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVVFSCSVMHEALHNH
YTQKSLSLSPGK