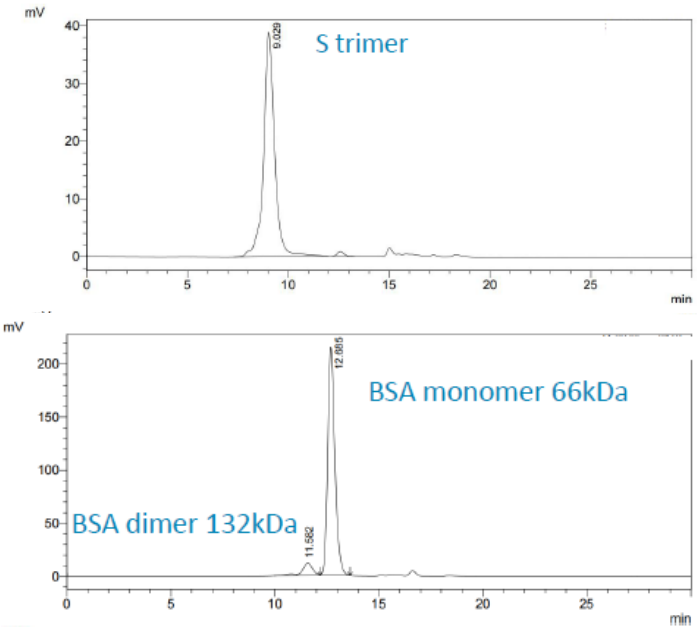
Recombinant SARS-CoV-2 S-trimer Protein (D614G, C-6His)

Catalog No: DRA59

Description	Recombinant SARS-CoV-2 S-trimer Protein is produced by our Mammalian expression system and the target gene encoding Cys15-Gln1208(D614G) is expressed with a 6His tag at the C-terminus.
Expression System	Human cells
Alternative name	SARS-CoV-2 S protein; SARS-CoV-2 Spike glycoprotein; SARS-CoV-2 S glycoprotein; SARS-nCoV-2 Spike glycoprotein
Accession No.	QHD43416.1
Predicted Molecular Weight	136.5kDa
Apparent Molecular Weight	170-220kDa, reducing conditions.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE; greater than 90% as determined by reducing SEC-HPLC.
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4.
Shipping	The product is shipped on dry ice pack. Upon receipt, store it immediately at the temperature listed below.
Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Sequence	CVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFSNVTWFHAI HVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIVNN ATNVVIKVCEFQFCNDPFLGVYYHKNNKSWMESEFRVYSSANNCTFEYVSQPF LMDLEGKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLP IGINITRFQTLLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTI TDAVDCALDPLSETKCTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEV FNATRFASVYAWNRKRISNCVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNV YADSFVIRGDEVRQIAPGQTGKIADYNYKLPDDFTGCVIAWNSNNLDSKVGGN YNYLYRLFRKSNLKPFERDISTEIYQAGSTPCNGVEGFNCYFPLQSYGFQPTNGV GYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVNFNFNGLTGTGVLTESN KKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITPGTNTSNQVAVL YQGVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSYECDI PIGAGICASYQTQTNSPGSASSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQD KNTQEVFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADA GFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGW TFGAGAALQIPFAMQMAYRFNGIGVTQNVLYENQKLIANQFNSAIGKIQDSLS STASALGKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRLDPPEAEVQI

DRLITGRLQSLQTYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGY
HLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPAICHDGKAHFPREGVFVSNG
THWFVTQRNFYEPQIITTDNTFVSGNCDVVIGIVNNTVYDPLQPELDSFKEELD
KYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDLQELGKYEQ
LVPRGSGYIPEAPRDGQAYVRKDGEWVLLSTFLHHHHHH

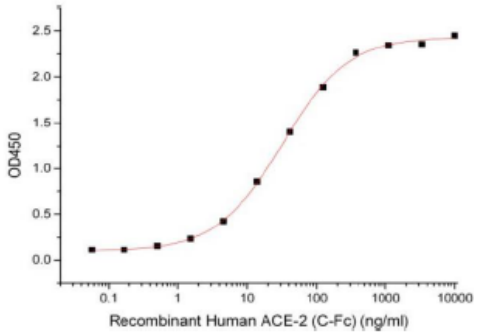
SEC-HPLC



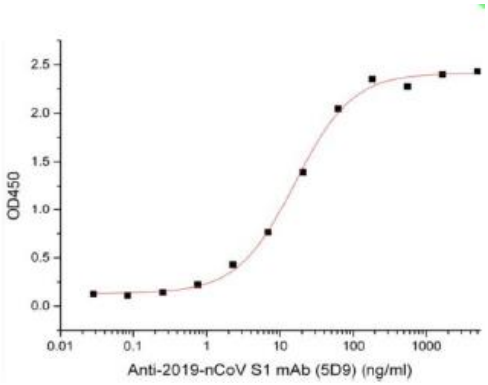
Results show DRA59 is trimer (theoretical MW: 411kDa) with high purity

Bioactivity

ELISA



Immobilized S trimer (D614G) His (Cat#DRA59) at 2μg/ml (100μl /well) can bind Human ACE 2 Fc(Cat#C05Y). The ED50 of Recombinant Human ACE 2 Fc(Cat#C05Y) is 31.75 ng/ml.



Immobilized S trimer (D614G) His (Cat#DRA59) at 2μg/ml (100μl /well) can bind Anti 2019 nCoV S1 mAb (5D9)(Cat#NC025). The ED50 of Anti 2019 nCoV S1 mAb (5D9)(Cat#NC025) is 15.81ng/ml.