



Recombinant Human ACE2-NN-IgG Fc (LALA)-Fusion Protein

Cat No: Pr00441

Product Summary

Description: Recombinant Human ACE2-NN-IgG Fc (LALA)-Fusion Protein manufactured using [AbAb's Recombinant Platform](#)

Protein: Human Angiotensin-converting enzyme 2 NN (ACE2-NN) – **inactivated form of ACE2**

Fc domain: Human IgG1 containing silencing LALA mutations

Species: Human

UniProt Accession Number: Q9BYF1 (ACE2)

Alternative Description: ACE2-NN-Fc chimera; ACE2-NN (Fc tag); ACEH; Metalloprotease MPROT15

Activity: ACE2 acts as a receptor for human coronaviruses SARS-CoV and SARS-CoV-2, as well as human coronavirus NL63/HCoV-NL63. ACE2-NN is its inactivated mutant form.

Description: ACE2-NN-Ig was generated from ACE2-Ig by altering the codons of ACE2 active-site histidines 374 and 378 to those of asparagines, using the QuikChange method. Fc fragment has silencing LALA mutations introduced.

Product Form

Purification: Purified by affinity chromatography.

Supplied in: PBS

Storage Recommendation: Recommended storage at 4°C for up to 1 month. For longer term storage store at -20°C or -80°C in appropriate sized aliquots.

Lot no: T2015B13

Concentration: 1 mg/ml

Quantity: 100 mg

Molecular weight: 190493.08 Da

Extinction coefficient: 376360 M⁻¹ cm⁻¹ (calculation performed as in Pace et al, 1995).

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals

Endotoxin: <0.050 EU/mg as determined by LAL chromogenic endotoxin assay:



Detailed Endotoxin Cartridge Report: CRL-19461095-220200421-002

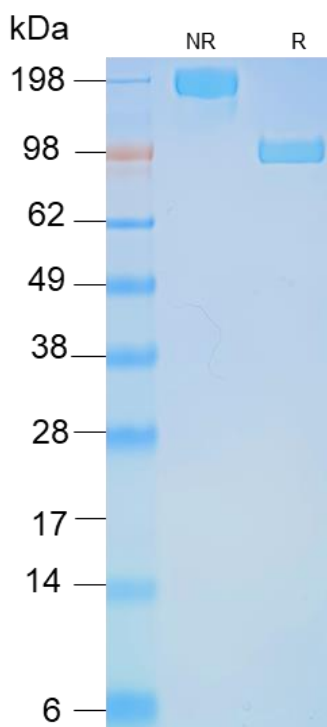
ASSAY INFORMATION:

Assay Name: CRL-19461095-220200421-002	
Analyst: AbAb_user	Assay Date/Time: 21/04/2020 14:14:29 UTC+01:00
Lab Name: N/A	
Instrument Type: nexgen PTS/MCS	Instrument Serial Number: 19461123

SAMPLE RESULTS:

Serial Number/Bay: MCS 19461095/2		Start/End Temp (°C): 37.0:37.0						
Sample Name: Pr00441								
Sample ID: N/A		Sample Lot: T2015B13	Dil./Conc.: 1.00 mg/mL					
Sample Comments: N/A								
Cartridge Lot Number: 6513164		Cartridge Range: 5-0.05 EU/mL						
Calibration Code: 513836555171		Archived Spike Concentration: 0.71 EU/mL						
Range: 138-765 seconds		Y-Intercept: +2.400	Slope: -0.372					
Endotoxin Value: <0.050 EU/mg		Sample CV Limit: <25%	Status: VALID					
Endotoxin Limit: <1 EU/mg	Status: VALID	Spike CV Limit: <25%	Status: VALID					
Alert Limit: N/A		Spike Recovery Range: 50-200%	Status: VALID					
SAMPLE DATA				SPIKE DATA				
Channel	Reaction Time	CV%	Sample Value	Channel	Reaction Time	CV%	Spike Value	Spike Recovery %
1	>765	0.0 %	<0.050 EU/mg	2	316	3.2 %	0.522 EU/mL	74 %
3	>765			4	302			

SDS PAGE gel image:



2.5 µg loading
 NR = Non-reduced
 R = Reduced

Pr00441 under non-reducing and reducing (DTT) conditions resolved by SDS-PAGE and stained using Coomassie-Blue.

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Full protein sequence:

QSTIEEQAKTFLDKFNHEAEDLFYQSSLASWNYNTNITEENVQNMNAGDKWSAFLKEQSTLAQMYPLQEIQNLTVKL
 QLQALQQNGSSVLSSEKSKRLNLTILNTMSTIYSTGKVCNPDNPQECLELLPGLNEIMANSLDYNERLWAWESWRSEV
 GKQLRPLYEEYVVLKNEMARANHYEDYGDYWRGDYEVNGVDGYDYSRGQLIEDVEHTFEEIKPLYEHLHAYVRAKLM
 NAYPSYISPIGCLPAHLLGDMWGRFWTNLYSLVPPFGQKPNIDVTDAMVDQAWDAQRFKEAEKFFVSVGLPNMTQG
 FWENSMLTDPGNVQKAVCHPTAWDLGKGDFRILMCTKVTMDDFLTAHNEMGNIQYDMAYAAQPFLLRNGANEGFHE
 AVGEIMSLSAATPKHLKSIGLLSPDFQEDNETEINFLKQALTIVGTLPTMMLKWRWMVFKGEIPKDQWMKKWEM
 KREIVGVVEPVPHDETYCDPASLFHVSNDYSFIRYYTRTLVYQFQFQEQALCQAAKHEGPLHKCDISNSTEAGQKLFNML
 RLGKSEPWTLALENVVGAKNMNRPLLNYFEPLFTWLKDNKNSFVGVSTWSPYADGGGGSGGGGSDKTHTCPP
 CPAPEAAGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSV
 LTVLHQDWLNGKEYKCKVSNKALPAPIEKTKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESN
 GPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFCSSVMHEALHNHYTQKSLSLSPGK

HPLC data:**CERTIFICATE OF ANALYSIS**

Result Table (Uncal - Pr00441_23_04_2020 14_46_48_0050103 - VWD : Detector 1)

	Reten. Time [min]	Area [mAU.s]	Height [mAU]	Area [%]	Height [%]	W05 [min]	Compound Name
1	6.181	13.179	0.684	0.4	0.7	0.30	
2	6.887	3444.534	101.847	99.6	99.3	0.51	
	Total	3457.713	102.532	100.0	100.0		

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