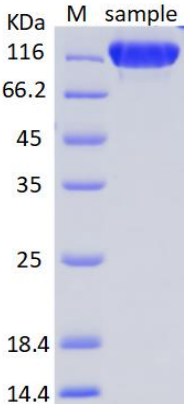
Recombinant Human ACE-2 Protein (C-hFc)

Catalog No: BP041

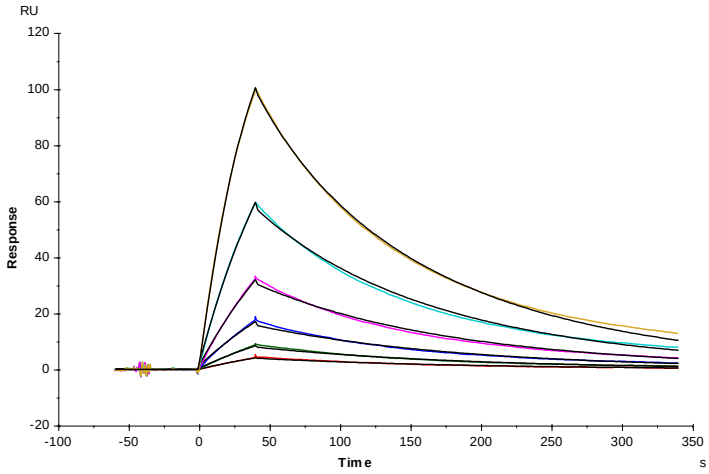
Description	Recombinant Human Angiotensin-Converting Enzyme 2 is produced by our Mammalian expression system and the target gene encoding Gln18-Ser740 is expressed with a human Fc tag at the C-terminus.
Source	Human Cells
Alternative name	Angiotensin-Converting Enzyme 2; ACE-Related Carboxypeptidase; Angiotensin-Converting Enzyme Homolog; ACEH; Metalloprotease MPROT15; ACE2
Accession No.	Q9BYF1
Predicted Molecular Weight	109kDa
Apparent Molecular Weight	116kDa, reducing conditions.
Quality Control	Purity: >95% as determined by reducing SDS-PAGE. Endotoxin: <0.1 EU/μg
Formulation	Lyophilized from sterile PBS, pH7.4
Reconstitution	It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Background	Angiotensin-Converting Enzyme 2 (ACE-2) is an integral membrane protein and a zinc metalloprotease of the ACE family, the ACE family includes somatic and germinal ACE. ACE-2 cleaves angiotensin I and II as a carboxypeptidase and converts angiotensin I to angiotensin 1-9, and angiotensin II to angiotensin 1-7. ACE-2 is also able to hydrolyze apelin-13 and dynorphin-13 with high efficiency. ACE-2 can be high expressed in testis, kidney and heart, in colon, small intestine and ovary at moderate levels. Captopril and lisinopril as the classical ACE inhibitor do not inhibit ACE-2 activity. ACE-2 may play an important role in regulating the heart function.

SDS-PAGE

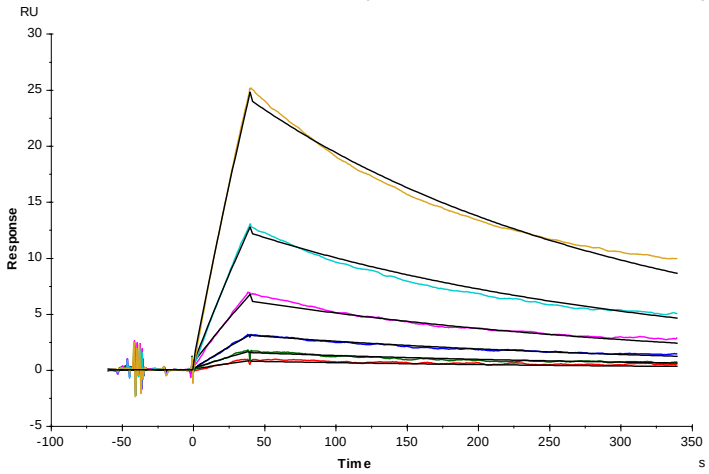


Sample: Reducing sample

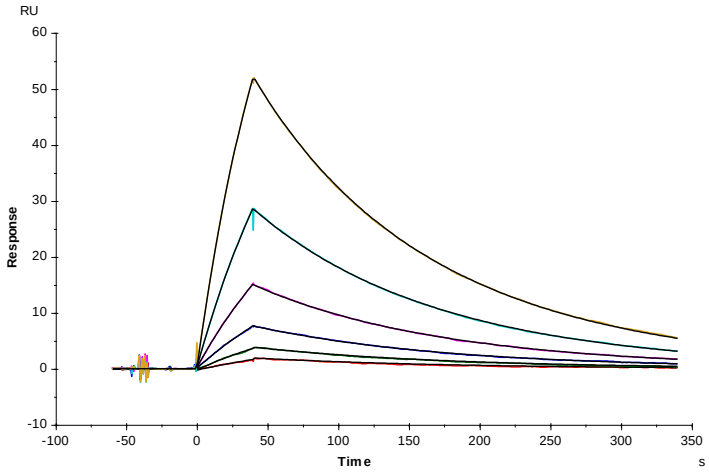
Bioactivity (SPR)



Human ACE-2, Fc tag (Cat# BP041) captured on chip can bind to SARS-CoV-2 Spike Protein RBD-His (Cat# BP036) with an affinity constant (KD) value of 12.3nM. (Biacore T200)



Human ACE-2, Fc tag (Cat# BP041) captured on chip can bind to SARS-CoV-2 Spike Protein RBD-His (Cat# BP037) with an affinity constant (KD) value of 22.3nM. (Biacore T200)



Human ACE-2, Fc tag (Cat# BP041) captured on chip can bind to SARS-CoV-2 Spike Protein RBD-tag free (Cat# BP038) with an affinity constant (KD) value of 23.6nM. (Biacore T200)