

## Human ACE2 Protein (hFc Tag)

### Basic information:

<b>Catalog No.:</b>	UDP9005-1	<b>Source:</b>	Human
<b>Lot NO.:</b>	U20021901	<b>Expression Host:</b>	HEK293 Cells
<b>Concentration:</b>	0.25 mg/ml	<b>Type:</b>	Recombinant protein
<b>Purity:</b>	> 95 % as determined by SDS-PAGE		

### Useful Information:

#### Construction:

A DNA sequence encoding the Human ACE2 Protein was expressed with hFc -tag in C terminus.

#### Molecular Mass:

The protein of Human ACE2 consists of 950 amino acids.

#### Formulation:

Liquid in sterile PBS, pH7.4.

#### Biological Activity

N/A

#### Endotoxin:

N/A

#### Storage:

Recombinant proteins are provided as frozen liquid which are shipped with dry ice. Bulk packages can be provided as lyophilized powder which shipped with blue ice.

#### Reconstitution:

According to the application.

#### Description:

Angiotensin-converting enzyme 2 (ACE2), a first homolog of ACE, regulates the renin angiotensin system (RAS) by counterbalancing ACE activity. Accumulating evidence in recent years has demonstrated a physiological and pathological role of ACE2 in the cardiovascular, renal and respiratory systems. ACE2 also has an important role in blood pressure control. In the acute respiratory distress syndrome (ARDS), ACE, AngII, and AT1R promote the disease pathogenesis, whereas ACE2 and the AT2R protect from ARDS. Importantly, ACE2 has been identified as a key SARS-coronavirus receptor and plays a protective role in severe acute respiratory syndrome (SARS) pathogenesis. Furthermore, the recent explosion of research into the ACE2 homolog, collectrin, has revealed a new physiological function of ACE2 as an amino acid transporter, which explains the pathogenic role of gene mutations in Hartnup disorder.

#### Sequences:

QSTIEEQAKTFLDKFNHEAEDLFYQSSLASWNYNTNITEENVQNMNAGDKWSAFLKEQSTLAQMYPLQEIQNLTVKLQLQ  
ALQQNGSSVLSEDKSKRLNLTILNTMSTIYSTGKVCNPDNPQECLLLEPGLNEIMANSLDYNERLWAWESWRSEVGKQLRPLY  
EEYVVLKNEMARANHYEDYGDYWRGDYEVNGVDGYDYSRGQLIEDVEHTFEEIKPLYEHLHAYVRAKLMNAYPSYISPIGCLP  
AHLGDMWGRFWTNLYSLTPFGQKPNIDVTDAMVDQAWDAQRFKEAEKFFVSVGLPNMTQGFWENSMLTDPGNVQ  
KAVCHPTAWDLGKGDIFRILMCTKVMTDDFLTAHHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEIMLSAATPKHLKSI  
GLLSPDFQEDNETEINFLKQALTIIVGTLPTFTYMLEKWRWMVFKGEIPKDQWMKKWWEMKREIVGVVEPVPHDETYCDPA  
SLFHVSNDSYFIRYYTRTYLQFQFQEQALCQAAKHEGPHKCDISNSTEAGQKLFNMLRLGKSEPWTALENVVGAKNMNVRP  
LLNYFEPLFTWLKDNKNSFVGVWSTDWSPYADQSIKVRISLKSALGDKAYEWNDNEMYLFRSSVAYAMRQYFLKVKKNQMIL  
FGEDVRVANLKPRIFFVTAPKNVSDIIPRTEVEKAIRMSRSRINDAFRLNDSLEFLGIQPTLGPNNQPPVSDKTHTCPPC

PAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQ  
DWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTT  
PPVLDSGDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

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