

Human ACE2 Protein (His Tag)

Basic information:

Catalog No.:	UDP9005-2	Source:	Human
Expression Host:	HEK293 Cells	Type:	Recombinant protein
Purity:	> 95 % as determined by SDS-PAGE		

Useful Information:

Construction:

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

Molecular Mass:

The protein of Human ACE2 consists of 731 amino acids.

Formulation:

Liquid in sterile PBS, pH7.4.

Biological Activity

Affinity constant (KD): $9.193 \times 10^{-9} \text{M}$, Association rate constant (ka): $3.288 \times 10^6 / \text{Ms}$, Dissociation rate constant (kd): $3.023 \times 10^{-2} / \text{s}$, Measured binding affinity with ACE2-His (UDP9005-2) by Biacore T200.

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.

Sequences:

QSTIEEQAKTFLDKFNHEAEDLFYQSSLASWNYNTNITEENVQNMNAGDKWSAFLKEQSTLAQMYPLQEIQNLTVKLQLQ
ALQQNGSSVLSEDKSKRLNLTILNTMSTIYSTGKVCNPDNPQECLEPLNEIMANSLDYNERLWAWESWRSEVGKQLRPLY
EEYVVLKNEMARANHIEDYGDYWRGDYEVNGVDGYDYSRGLIEDVEHTFEEIKPLYEHLHAYVRAKLMNAYPSYISPIGCLP
AHLGDMWGRFWTNLVSLVFPFGQKPNIDVTDAMVDQAWDAQRFKEAEKFFVSVGLPNMTQGFWENSMLTDPGNVQ
KAVCHPTAWDLGKGFRLMCTKVTMDDFLTAHHEMGHIQYDMAYAAQPFLRNGANEGFHEAVGEIMSLSAATPKHLKSI
GLLSPDFQEDNETEINFLKQALTIVGTLPTFTYMLEKWRWMVFKGEIPKDQWMKWWEMKREIVGVVEPVPHDETYCDPA
SLFHVSNDSYFIRYYTRTYLQFQFQEQALCQAQAKHEGPHKCDISNSTEAGKLFNMLRLGKSEPWTLAENVVGAKNMNVRP
LLNYFEPLFTWLKQNKNSFVGVWSTDWSPYADQSIKVRISLKSALGDKAYEWNDNEMYLFRSSVAYAMRQYFLKVNQMIL
FGEDVRVANLKPRI SFNFVVTAPKNVSDIIPRTEVEKAIRMSRSRINDAFRLNDSLEFLGIQPTLGPPNQPPVSHHHHHHHH

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