For Research Use Only Recombinant Human ACE2 protein (His Tag)

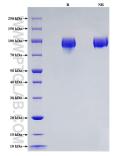


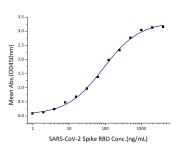
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Catalog Number: Eg0074

Basic Information	<mark>Species:</mark> Human	Purity: >95 %, SDS-PAGE	Tag: His Tag
	EC50: 44-176 ng/mL		
Technical Specifications	Purity: >95 %, SDS-PAGE		
	Endotoxin Level: <0.1 EU/ µg protein, LAL method		
	Source: HEK293-derived Human ACE2 protein Gln18-Ser740 (Accession# Q9BYF1) with a His tag at the N-terminus.		
	GenelD: 59272		
	Accession: Q9BYF1		
	Predicted Molecular Mass: 84.4 kDa		
	SDS-PAGE: 85-105 kDa, reducing (R) conditions	5	
	Formulation: Lyophilized from 0.22 µm filtered protectants before lyophilization.	solution in PBS, pH 7.4. Normally	/ 5% trehalose and 5% mannitol are added as
Biological Activity	Immobilized Human ACE2 (His tag) His tag) with a linear range of 44-17		ind SARS-CoV-2 Spike RBD (hFc tag, Myc tag,
Storage and Shipping	Storage: It is recommended that the proteir	n be aliquoted for optimal storag	ge. Avoid repeated freeze-thaw cycles.
	 Until expiry date, -20°C to 3 months, -20°C to -80°C u 	-80 $^\circ C$ as lyophilized proteins. nder sterile conditions after red	constitution.
	Shipping: The product is shipped at ambient t temperature.	temperature. Upon receipt, stor	e it immediately at the recommended
Reconstitution	Briefly centrifuge the tube before	opening. Reconstitute at 0.1-0.5	i mg/mL in sterile water.
Background	to the peptidase M2 family. It plays tone, fluid, and electrolyte balance single C-terminal residue from Ang (1-7) (Ang-(1-7)), which binds to the counteract the pathways activated	an important role in cardiovascu ACE2 functions as a carboxymoi giotensin-II (Ang-II), the key pepi G-protein-coupled Mas receptu by Ang-II. ACE2 is expressed in a particularly enriched in lung ep	renin-angiotensin system (RAS), belongs ular homeostasis by regulating vascular nopeptidase hydrolyzing the cleavage of a tide hormone of RAS, to form Angiotensin- or and activates signaling pathways that variety of tissues, including the kidneys, ithelium. Recent studies have shown that bsis changes following COVID-19
References	1. Li Q, et al. (2020). Clin Sci (Lond). 1 2. Li Y, et al. (2020). Biochem Biophy 3. Hikmet F, et al. (2020). Mol Syst Bi 4. Chaudhry F, et al. (2020). Open He	rs Res Commun. 526:947-952. ol. 16:e9610.	
Synonyms	ACE2, ACE related carboxypeptidase	e, ACEH, ACE-related carboxypep	tidase, Angiotensin converting enzyme 2

Selected Validation Data





Purity of Recombinant Human ACE2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue. Immobilized Human ACE2 (His tag) at 2 $\,\mu$ g/mL (100 $\,\mu$ L/well) can bind SARS-CoV-2 Spike RBD (hFc tag, Myc tag, His tag) with a linear range of 44-176 ng/mL

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