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

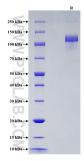


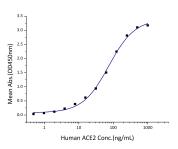
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Basic Information	<mark>Species:</mark> Human	Purity: >90 %, SDS-PAGE	Tag: hFc Tag
	<mark>EC50:</mark> 36-146 ng/mL		
Technical Specifications	Purity: >90 %, SDS-PAGE		
	Endotoxin Level: <0.1 EU/ μ g protein, LAL method		
	Source: HEK293-derived Human ACE2 protein Gln18-Ser740 (Accession# Q9BYF1) with a human IgG1 Fc tag at the N- terminus.		
	GenelD: 59272		
	Accession: Q9BYF1		
	Predicted Molecular Mass: 109.6 kDa		
	SDS-PAGE: 110-140 KDa, reducing (R) condit	ions	
	Formulation: Lyophilized from 0.22 µm filtere protectants before lyophilization	ed solution in PBS, pH 7.4. Normall n.	y 5% trehalose and 5% mannitol are added as
Biological Activity	Immobilized SARS-CoV-2 Spike RBD (Myc tag, His tag) at 2 μ g/mL (100 μ L/well) can bind Human ACE2 (hFc tag) with a linear range of 36-146 ng/mL.		
Storage and Shipping	Storage: It is recommended that the prote	ein be aliquoted for optimal stora	ge. Avoid repeated freeze-thaw cycles.
	 Until expiry date, -20°C 3 months, -20°C to -80°C 	to -80 $^\circ C$ as lyophilized proteins. C under sterile conditions after re	constitution.
	Shipping: The product is shipped at ambien temperature.	nt temperature. Upon receipt, sto	re it immediately at the recommended
Reconstitution	Briefly centrifuge the tube befo	re opening. Reconstitute at 0.1-0.	5 mg/mL in sterile water.
Background	tone, fluid, and electrolyte balan single C-terminal residue from A (1-7) (Ang-(1-7)), which binds to to counteract the pathways activate testes, heart, and intestines, and	ce. ACE2 functions as a carboxymo ngiotensin-II (Ang-II), the key pep the G-protein-coupled Mas recept ed by Ang-II. ACE2 is expressed in is particularly enriched in lung et	e renin-angiotensin system (RAS), belongs rular homeostasis by regulating vascular nopeptidase hydrolyzing the cleavage of a btide hormone of RAS, to form Angiotensin- cor and activates signaling pathways that a variety of tissues, including the kidneys, bithelium. Recent studies have shown that osis changes following COVID-19
References	1. Li Q, et al. (2020). Clin Sci (Lond 2. Li Y, et al. (2020). Biochem Biop 3. Hikmet F, et al. (2020). Mol Syst 4. Chaudhry F, et al. (2020). Open	hys Res Commun. 526:947-952. Biol. 16:e9610.	
Synonyms	ACE2, ACE related carboxypeptid	ase, ACEH, ACE-related carboxyper	otidase, 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) conditions and stained using Coomassie blue. Immobilized SARS-CoV-2 Spike RBD (Myc tag, His tag) at 2 $\,\mu$ g/mL (100 $\,\mu$ L/well) can bind Human ACE2 (hFc tag) with a linear range of 36-146 ng/mL

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