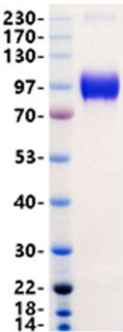




PRODUCT DATASHEET

Catalog No:	LTP-V005
Pack Size	50 µg
Product Name:	Recombinant Human ACE2 Protein (H374N, and H378N)
Description:	Recombinant protein of the extracellular domain (Gln18-Arg708) of Homo sapiens angiotensin converting enzyme 2 (ACE2), transcript variant 2, with a human IgG1 Fc tag at its C-terminus.
Species:	2019-nCoV, SARS-CoV-2
Sequence:	The amino acid sequences of recombinant protein was derived from accession# YP_009724390.1 fused to Glu99-Lys330 region of human IgG1 constant region.
Accession No.:	NM_021804; NP_068576; UniProt#: Q9BYF1; Gene ID: 59272
Tag:	C-terminal Fc-Tag
Host:	Expressed and purified from in vitro cell culture of HEK293 cells.
Applications:	Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies
Purity:	>90% as determined by SDS-PAGE and Coomassie Blue staining.

<p>Predicted Molecular Mass:</p>	 <p>Predicted MW of this product is ~ 97.8 kDa. It runs higher on SDS-PAGE under the reduced condition due to post-translational modification when expressed and secreted from mammalian cells.</p>
<p>Formulation:</p>	<p>Protein formulated as 1 mg/mL in a solution of PBS, pH 7.2</p>
<p>Endotoxin:</p>	<p>Endotoxin level is < 0.1 ng/μg of protein (<1.0 EU/μg purified protein) (LAL test)</p>
<p>Shipping, Storage and Stability:</p>	<p>The product is shipped with dry ice. Upon receipt, unopened vial can be stored at -80°C for over 12 months. Avoid repeated freeze/thaw cycles. Also, the product can be aliquoted in the smaller size of working aliquots with the desired buffer and concentration and stored at or below -20°C stable for 3 to 4 weeks.</p>

Background:

Homo sapiens angiotensin converting enzyme 2 (ACE2) belongs to the angiotensin-converting enzyme family of dipeptidyl carboxyl dipeptidases and has considerable homology to human angiotensin 1 converting enzyme. This secreted protein catalyzes the cleavage of angiotensin I into angiotensin 1-9, and angiotensin II into the vasodilator angiotensin 1-7. The encoded protein is a functional receptor for the spike glycoprotein of the human coronaviruses SARS, HCoV-NL63, as well as SARS-CoV-2.

FOR RESEARCH LABORATORY TEST USE ONLY!