ACTIVE BIOSCIENCE
PROTEINS · CELLS · ANTIBODIES

Rat ACE2 (glycosylated, HEK, His-Tag)

Synonyms: Rat Angiotensin Converting Enzyme 2 (a.a. 18-740), recombinant.

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order#	Lot#	Expiry Date
2 µg	4575.972.002		
10 µg	4575.972.010		
1 mg	4575.972.199		

Please enquire for bulk quantities and other vial sizes.

Description

Recombinant Rat ACE2 is a glycosylated Enzyme derived from Insect cells consisting of Amino Acids 18-740, with Molecular Mass of 84,5 kDA. It is fused to a His-Tag at the N-terminus. ACE2 Protein binds to SARS Coronavirus-2 (nCoV-2019) Spike receptor binding domain. It is an entry receptor of SARS coronaviruses as well as SARS-CoV-2,. ACE2 is The coronavirus spike (S) glycoprotein is a class I viral fusion antigen located on the external envelope of the virion that takes part in a critical part in viral infection by identifying host cell receptors and facilitating fusion of the viral and cellular membranes. 2 main domains in coronavirus S1 have been recognized, the N-terminal domain and C-terminal domain. One or the other and/or both S1 domains function as a receptor-binding domain. SARS-CoV + MERS-CoV equally use C-domain to attach their receptors. ACE2 is a type I transmembrane antigen with an extracellular N-terminal domain having the catalytic site and an intracellular C-terminal tail. ACE2 obtains a signal peptide, a transmembrane domain, and a single metalloproteinase active site containing an HEXXH zinc-binding domain.

ACE-2 (Angiotensin converting enzyme 2) an enzyme bound to cell membranes in various organs such as intestines arteries, lungs, heart & kidney. ACE-2 plays a role as a mono-carboxypeptidase which degrades Ang I to produce the nonapeptide Ang 1–9 and Ang II to create the heptapeptide Ang 1–7.

- **Source** HEK
- **Purity** ≥ 95 % (SDS-PAGE)
- **Stabilizer** Glycerol 10 %
- **Buffer** PBS (pH 7.4)*
- **Physical State** Sterile filtered, liquid

Stability

The protein is stable for at least 2 weeks at 0°C - 4°C, and therefore can be shipped on ice packs. Upon arrival it should be stored at -20 °C. Please avoid repeated freeze-thaw cycles.

Amino Acid Sequence

QSLTEENAKT FLNNFNQEAE DLSYQSSLAS WNYNTNITEE NAQKMSEAAA KWSAFYEEQS KTAQSFSLQE
IQTPIIKRQL QALQQSGSSA LSADKNKQLN TILNTMSTIY STGKVCNPKN PQECLLLEPG LDEIMATSTD
YNSRLWAWEG WRAEVGKQLR PLYEEYVVLK NEMARANNYN DYGDYWRGDY EAEGADGYNY NRNQLIEDVE
RTFAEIKPLY EHLHAYVRRK LMDTYPSYIS PTGCLPAHLL GDMWGRFWTN LYPLTVPFAQ KPNIDVTDAM
MNQGWDAERI FQEAEKFFVS VGLPHMTQGF WANSMLTEPA DGRKVVCHPT AWDLGHGDFR IKMCTKVTMD
NFLTAHHEMG HIQYDMAYAR QPFLLRNGAN EGFHEAVGEI MSLSAATPKH LKSIGLLPSD FQEDSETEIN
FLLKQALTIV GTLPFTYMLE KWRWMVFRGE IPKEQWMKKW WEMKREIVGV VEPLPHDETY CDPASLFHVS
NDYSFIRYYT RTIYQFQFQE ALCQAAKYNG SLHKCDISNS TEAGQKLLKM LSLGNSEPWT KALENVVGAR
NMDVKPLLNY FQPLFDWLKE QNRNSFVGWN TEWSPYADQS IKVRISLKSA LGANAYEWTN NEMFLFRSSV
AYAMRKYFSI IKNQTVPFLE EDVRVSDLKP RVSFYFFVTS PQNVSDVIPR SEVEDAIRMS RGRINDVFGL
NDNSLEFLGI HPTLEPPYQP PVTLEHHHHH H

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

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