

Recombinant mouse ACE-2 protein

Catalog Number: ATGP4014

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

18-740aa

UniProt No.

Q8R0I0

NCBI Accession No.

NP_081562.2

Alternative Names

Angiotensin-converting enzyme 2, ACE-related carboxypeptidase, Processed Angiotensin-converting enzyme 2, ACE2, 2010305L05Rik

PRODUCT SPECIFICATION

Molecular Weight

84.5 kDa (731aa)

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Specific activity is > 200 pmol/min/ug, and is defined as the amount of enzyme that hydrolysis 1.0 pmole of Mca-YVADAPK(Dnp)-OH per minute at pH 7.5, at 25C.

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

ACE-2, also known as angiotensin-converting enzyme 2, is an integral membrane protein and a zinc metalloprotease of the ACE family that also includes somatic and germinal ACE. It cleaves angiotensin 1 to angiotensin 1-9 and angiotensin 2 to angiotensin 1-7 as a carboxypeptidase. It may be an important regulator of heart function and have a protective role in acute lung injury. Also, it is a key SARS-CoV Spike protein receptor in vivo. Recombinant mouse ACE-2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

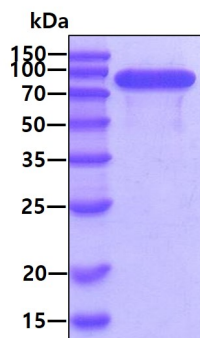
QSLTEENAKT FLNNFNQAE DLSYQSSLAS WNYNTNITEE NAQKMSEAAA KWSAFYEEQS KTAQSFSLQE IQTPIIKRQL
 QALQQSGSSA LSADKNKQLN TILNTMSTIY STGKVCNPKN PQECLLLEPG LDEIMATSTD YNSRLWAWEG WRAEVGKQLR
 PLYEEYVVLK NEMARANNYN DYGDYWRGDY EAEGADGYNY NRNQLIEDVE RTFAEIKPLY EHLHAYVRRK LMDTYPYSIS
 PTGCLPAHLL GDMWGRFWTN LYPLTVPFAQ KPNIDVTDAM MNQGWDAERI FQEAKEFFVS VGLPHMTQGF
 WANSMLTEPA DGRKVVCHPT AWDLGHGDFR IKMCTKV TMD 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 HPTLEPPYQPPVT<LEHHHHH H>

General References

Kuba K., et al. (2005) Nature Med. 11:875-879.
 Ima Y., et al. (2005) Nature 436:112-116.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain