Recombinant mouse ACE-2 protein

Catalog Number: ATGP4014

PRODUCT INPORMATION

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

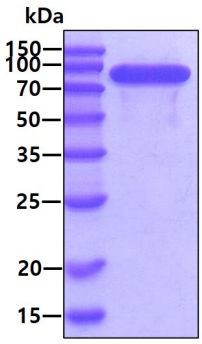
QSLTEENAKT FLNNFNQEAE DLSYQSSLAS WNYNTNITEE NAQKMSEAAA KWSAFYEEQS KTAQSFSLQE IQTPIIKRQL QALQQSGSSA LSADKNKQLN TILNTMSTIY STGKVCNPKN PQECLLLEPG LDEIMATSTD YNSRLWAWEG WRAEVGKQLR PLYEEYVVLK NEMARANNYN DYGDYWRGDY EAEGADGYNY NRNQLIEDVE RTFAEIKPLY EHLHAYVRRK LMDTYPSYIS PTGCLPAHLL GDMWGRFWTN LYPLTVPFAQ KPNIDVTDAM 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 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