

Recombinant mouse ACE-2 protein

Catalog Number: ATGP3288

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

18-740aa

UniProt No.

Q8R0I0

NCBI Accession No.

NP_081562

Alternative Names

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)

Tag

His-Tag

Application

SDS-PAGE

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.

BACKGROUND

Description

ACE2, 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. ACE2 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. Recombinant mouse ACE2, fused to His-tag at C-

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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 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 IKNQTPFLE EDVRVSDLKP RVSFYFFVTS PQNVSDVIPR SEVEDAIRMS RGRINDVFGL
NDNSLEFLGI HPTLEPPYQPPVT<LEHHHHH H>

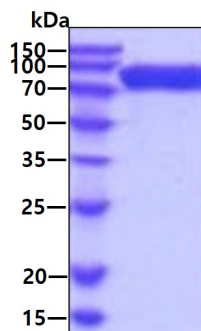
General References

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