

Recombinant rat ACE-2 protein

Catalog Number: ATGP4048

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

18-740aa

UniProt No.

Q5EGZ1

NCBI Accession No.

NP_001012006.1

Alternative Names

ACE2, angiotensin-converting enzyme2, Ace2, ACE-related carboxypeptidase

PRODUCT SPECIFICATION

Molecular Weight

84.7 kDa (731aa)

Concentration

0.5mg/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 > 150 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.

BACKGROUND

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Description

ACE-2, also known as angiotensin-converting enzyme 2, is carboxypeptidase which converts angiotensin I to angiotensin 1-9, a peptide of unknown function, and angiotensin II to angiotensin 1-7, a vasodilator. It is able to hydrolyze apelin-13 and dynorphin-13 with high efficiency and may be an important regulator of heart function. Recombinant rat ACE-2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

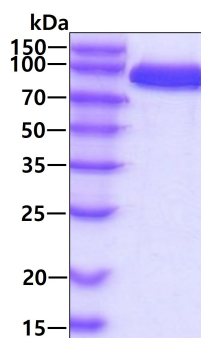
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KALQSGSSA LSPDKNKQLN TILNTMSTIY STGKVCNSMN PQECFLLEPG LDEIMATSTD YNRRLWAWEG WRAEVGKQLR
PLYEEYVVLK NEMARANNYE DYGDYWRGDY EAEGVEGYNY NRNQLIEDVE NTFKEIKPLY EQLHAYVRTK LMEVYPSYIS
PTGCLPAHLL GDMWGRFWTN LYPLTTPFLQ KPNIDVTDAM VNQSWDAERI FKEAEKFFVS VGLPQMTPGF WTNSMLTEPG
DDRKVVCHPT AWDLGHGDFR IKMCTKVTMD NFLTAHHEMG HIQYDMAYAK QPFLLRNGAN EGFHEAVGEI MSLSAATPKH
LKSIGLLPSN FQEDNETEIN FLLKQALTIV GTLPFTYMLE KWRWMVFQDK IPREQWTKKW WEMKREIVGV VEPLPHDETY
CDPASLFHVS NDYSFIRYYT RTIYQFQFQE ALCQAAKHG PLHKCDISNS TEAGQKLLNM LSLGNSGPWT LALENNVGS
NMDVKPLNLY FQPLFVWLKE QNRNSTVGWS TDWSPYADQS IKVRISLKSA LGKNAYEWD NEMYLFRSSV AYAMREYFSR
EKNQTPFGE ADVWVSDLKP RVSNFFVTS PKNVSDIIPR SEVEEAIKMS RGRINDIFGL NDNLSLEFLGI YPTLKPPYEP
PVT<LEHHHHH H>

General References

Li W., et al. (2004) J. Virol. 78:11429-11433.
Crackower M., A. et al. (2002) Nature 417:822-828.

DATA

SDS-PAGE



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