

Recombinant rat ACE-2 protein

Catalog Number: ATGP3265

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)

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 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 ACE2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using

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conventional chromatography techniques.

Amino acid Sequence

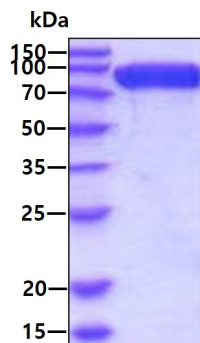
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KALQQSGSSA LSPDKNKQLN TILNTMSTIY STGKVCNSMN PQECFLLEPG LDEIMATSTD YNRRLWAWEG WRAEVGKQLR
PLYEEYVVLK NEMARANNYE DYGDYWRGDY EAEGVEGYNY NRNQLIEDVE NTFKEIKPLY EQLHAYVRTK LMEVYPSYIS
PTGCLPAHLL GDMWGRFWTN LYPLTTPFLQ KPNIDVTDAM VNQSWDAERI FKEAEKFFVS VGLPQMTPGF WTNSMLTEPG
DDRKVVCHPT AWDLGHGDFR IKMCTKVTMD NFLTAHHEMG HIQYDMAYAK QPFLLRNGAN EGFHEAVGEI MSLSAATPKH
LKSIGLLPSN FQEDNETEIN FLLKQALTIV GTLPFTYMLE KWRWMVFQDK IPREQWTKKW WEMKREIVGV VEPLPHDETY
CDPASLFHVS NDYSFIRYYT RTIYQFQFQE ALCQAAKHDG PLHKCDISNS TEAGQKLLNM LSLGNSGPWT LALENVVGSR
NMDVKPLLNY FQPLFVWLKE QNRNSTVGWS TDWSPYADQS IKVRISLKSA LGKNAYEWD NEMYLFRSSV AYAMREYFSR
EKNQTVPFGE ADVVWSDLKP RVSFNFFVTS PKNVSDIIPR SEVEEAIRMS RGRINDIFGL NDNSLEFLGI 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