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

conventional chromatography techniques.

Amino acid Sequence

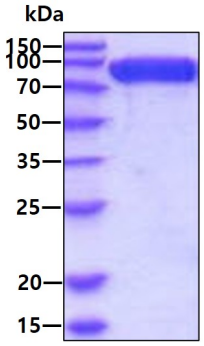
QSLIEEKAES FLNKFNQEAE DLSYQSSLAS WNYNTNITEE NAQKMNEAAA KWSAFYEEQS KIAQNFSLQE IQNATIKRQL KALQQSGSSA LSPDKNKQLN TILNTMSTIY STGKVCNSMN PQECFLLEPG LDEIMATSTD YNRRLWAWEG WRAEVGKQLR PLYEEYVVLK NEMARANNYE DYGDYWRGDY EAEGVEGYNY NRNQLIEDVE NTFKEIKPLY EQLHAYVRTK LMEVYPSYIS PTGCLPAHLL GDMWGRFWTN LYPLTTPFLQ KPNIDVTDAM 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 LGKNAYEWTD NEMYLFRSSV AYAMREYFSR EKNQTVPFGE ADVWVSDLKP 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