
Product Data Sheet

Product Name: ACE Human

Cat. No.: GP26113

Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms Angiotensin-converting enzyme, ACE, Dipeptidyl carboxypeptidase I, Kininase II, CD_antigen: CD143, DCP, DCP1, ACE1, CD143

Caution: Product has not been fully validated for medical applications. For research use only.

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Amino Acid
Sequence

LDPGLQPGNF SADEAGAQLF AQSYNSSAEQ VLFQSVAASW AHDTNITAEN
 ARRQEEAALL SQEFAEAWGQ KAKELYEPIW QNFTDPQLRR IIGAVRTLGS
 ANLPLAKRQQ YNALLSNMSR IYSTAKVCLP NKTATCWSLD PDLTNILASS
 RSYAMLLFAW EGWHNAAGIP LKPLYEDFTA LSNEAYKQDG FTDTGAYWRS
 WYNSPTFEDD LEHLYQQLEP LYLNLHAFVR RALHRRYGDR YINLRGPIPA
 HLLGDMWAQS WENIYDMVVP FPDKPNLDVT STMLQQGWNA THMFRVAEEF
 FTSLELSPMP PEFWEGSMLE KPADGREVVC HASAWDFYNR KDFRIKQCTR
 VTMDQLSTVH HEMGHIQYYL QYKDLPVSLR RGANPGFHEA IGDVLALSVS
 TPEHLHKIGL LDRVNTDTE DINYLLKMAL EKIAFLPGFY LVDQWRWGVF
 SGRTPPSRYN FDWWYLRTKY QGICPPVTRN ETHFDAGAKF HVPNVTPYIR
 YFVSFVLQFQ FHEALCKEAG YEGPLHQCDI YRSTKAGAKL RKVLQAGSSR
 PWQEVKDMV GLDALDAQPL LKYFQPVTQW LQEQNQNGE VLGWPEYQWH
 PPLPDNYPEG IDLVTDEAEA SKFVEEYDRT SQVWVNEYAE ANWNYNTNIT
 TETSKILLQK NMQIANHTLK YGTQARKFDV NQLQNTTIKR IIKKVQDLER
 AALPAQELEE YNKILLDMET TYSVATVCHP NGSCLQLEPD LTNVMATSRK
 YEDLLWAWEG WRDKAGRAIL QFYPKYVELI NQAARLNGYV DAGDSWRSMY
 ETPSLEQDLE RLFQELQPLY LNLHAYVRRRA LHRHYGAQHI NLEGPIPAHL
 LGNMWAQTS NIYDLVVPFP SAPSMDTTEA MLKQGWTPRR MFKEADDFFT
 SLGLLPVPPE FWNKSMLEKP TDGREVVCHA SAWDFYNGKD FRIKQCTTVN
 LEDLVVAHHE MGHIQYFMQY KDLPVALREG ANPGFHEAIG DVLALSSTP
 KHLHSLNLLS SEGGSDEHDI NFLMKMALDK IAFIPFSYLV DQWRWRVFDG
 SITKENYNQE WWSLRLKYQG LCPPVPRTOG DFDPGAKFHI PSSVPYIRYF
 VSFIIQFQFH EALCQAAGHT GPLHKCDIYQ SKEAGQRLAT AMKLGFSRPW
 PEAMQLITGQ PNMSASAMLS YFKPLLDWLR TENELHGEKL GWPQYNWTPN
 SARSEGPLPD SGRVSFLGLD LDAQQARVEH HHHHH

Formulation

ACE protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Introduction

Angiotensin Converting Enzyme (ACE) is a zinc metallopeptidase vital for blood pressure control and salt and water metabolism. ACE converts angiotensin I to angiotensin II by release of the terminal His-Leu which causes the vasoconstrictor activity of angiotensin to increase. ACE inactivates bradykinin, a potent vasodilator and has also a glycosidase activity which releases GPI-anchored proteins from the membrane by cleaving the

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mannose linkage in the GPI moiety.

Biological Activity

Specific activity is > 1,000 pmol/min/mg. Defined by the amount of enzyme that cleaves 1pmol of McaRPPGFSAFK(Dnp)-OH per minute at 25C?.

Stability

Store at 46yC if entire vial will be used within 2-4 weeks. Store, frozen at -206yC for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ACE Human produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 1235 amino acids (30-1256 a.a.) and having a molecular mass of 142kDa. ACE is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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