.-online.com antibodies

Datasheet for ABIN3112837 Angiotensin I Converting Enzyme 1 Protein (AA 30-1232) (rho-1D4 tag)



Overview

| Quantity: | 1 mg |
|-------------------------------|--|
| Target: | Angiotensin I Converting Enzyme 1 (ACE) |
| Protein Characteristics: | AA 30-1232 |
| Origin: | Human |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This Angiotensin I Converting Enzyme 1 protein is labelled with rho-1D4 tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys) |

Product Details

| 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 LDRVTNDTES |
| | DINYLLKMAL EKIAFLPFGY LVDQWRWGVF SGRTPPSRYN FDWWYLRTKY QGICPPVTRN |
| | ETHFDAGAKF HVPNVTPYIR YFVSFVLQFQ FHEALCKEAG YEGPLHQCDI YRSTKAGAKL |
| | RKVLQAGSSR PWQEVLKDMV GLDALDAQPL LKYFQPVTQW LQEQNQQNGE VLGWPEYQWH |
| | PPLPDNYPEG IDLVTDEAEA SKFVEEYDRT SQVVWNEYAE ANWNYNTNIT TETSKILLQK |
| | NMQIANHTLK YGTQARKFDV NQLQNTTIKR IIKKVQDLER AALPAQELEE YNKILLDMET |

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3112837 | 04/30/2024 | Copyright antibodies-online. All rights reserved.

| TYSVA | IVCHP NGSCLQLEPD LTNVMATSRK YEDLLWAWEG WRDKAGRAIL QFYPKYVELI |
|-------------------------|---|
| NQAAR | LNGYV DAGDSWRSMY ETPSLEQDLE RLFQELQPLY LNLHAYVRRA LHRHYGAQHI |
| NLEGP | PAHL LGNMWAQTWS NIYDLVVPFP SAPSMDTTEA MLKQGWTPRR MFKEADDFFT |
| SLGLLF | VPPE FWNKSMLEKP TDGREVVCHA SAWDFYNGKD FRIKQCTTVN LEDLVVAHHE |
| MGHIQ | YFMQY KDLPVALREG ANPGFHEAIG DVLALSVSTP KHLHSLNLLS SEGGSDEHDI |
| NFLMK | MALDK IAFIPFSYLV DQWRWRVFDG SITKENYNQE WWSLRLKYQG LCPPVPRTQG |
| DFDPG. | AKFHI PSSVPYIRYF VSFIIQFQFH EALCQAAGHT GPLHKCDIYQ SKEAGQRLAT |
| AMKLG | FSRPW PEAMQLITGQ PNMSASAMLS YFKPLLDWLR TENELHGEKL GWPQYNWTPN |
| SAR | |
| Sequen | ce without tag. Tag location is at the discretion of the manufacturer. If you have a |
| special | request, please contact us. |
| Characteristics: • Made | e in Germany - from design to production - by highly experienced protein experts. |
| • Hum | an ACE Protein (raised in Insect Cells) purified by multi-step, protein-specific process to |
| | re crystallization grade. |
| • State | -of-the-art algorithm used for plasmid design (Gene synthesis). |
| This pro | ptein is a made to order protein and will be made for the first time for your order. Our |
| experts | in the lab will ensure that you receive a correctly folded protein. |
| The big | advantage of ordering our made-to-order proteins in comparison to ordering custom |
| made p | roteins from other companies is that there is no financial obligation in case the protein |
| cannot | be expressed or purified. |
| In the u | nlikely event that the protein cannot be expressed or purified we do not charge anything |
| (other c | ompanies might charge you for any performed steps in the expression process for |
| custom | -made proteins, e.g. fees might apply for the expression plasmid, the first expression |
| experim | nents or purification optimization). |
| When y | ou order this made-to-order protein you will only pay upon receival of the correctly |
| folded p | protein. With no financial risk on your end you can rest assured that our experienced |
| protein | experts will do everything to make sure that you receive the protein you ordered. |
| The cor | ncentration of our recombinant proteins is measured using the absorbance at 280nm. |
| The pro | tein's absorbance will be measured in several dilutions and is measured against its |
| specific | reference buffer. |
| The cor | ncentration of the protein is calculated using its specific absorption coefficient. We use |
| the Exp | asy's protparam tool to determine the absorption coefficient of each protein. |
| Purification: Three s | tep purification of membrane proteins expressed in baculovirus infected SF9 insect |
| cells: | |
| 1 Mem | brane proteins are fractioned by ultracentrifugation and subsequently solubilized with |

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3112837 | 04/30/2024 | Copyright antibodies-online. All rights reserved.

| | different detergents (detergent screen). Samples are analyzed by Western blot. 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot. |
|------------------|--|
| Purity: | >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Protein is endotoxin-free. |
| Grade: | Crystallography grade |

Target Details

| Target: | Angiotensin I Converting Enzyme 1 (ACE) |
|-------------------|--|
| Alternative Name: | ACE (ACE Products) |
| Background: | Converts angiotensin I to angiotensin II by release of the terminal His-Leu, this results in an increase of the vasoconstrictor activity of angiotensin. Also able to inactivate bradykinin, a potent vasodilator. Has also a glycosidase activity which releases GPI-anchored proteins from the membrane by cleaving the mannose linkage in the GPI moiety. |
| Molecular Weight: | 139.8 kDa Including tag. |
| UniProt: | P12821 |
| Pathways: | ACE Inhibitor Pathway, Peptide Hormone Metabolism, Regulation of Systemic Arterial Blood Pressure by Hormones, Feeding Behaviour, Smooth Muscle Cell Migration |

Application Details

| Application Notes: | In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
|--------------------|--|
| Comment: | In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest. |

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3112837 | 04/30/2024 | Copyright antibodies-online. All rights reserved.

Application Details

Restrictions:

For Research Use only

Handling

| Format: | Liquid |
|------------------|--|
| Buffer: | 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | Unlimited (if stored properly) |