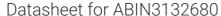
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Angiotensin I Converting Enzyme 1 Protein (AA 35-1264) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	Angiotensin I Converting Enzyme 1 (ACE)
Protein Characteristics:	AA 35-1264
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Angiotensin I Converting Enzyme 1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

LDPGLQPGNF SPDEAGAQLF AESYNSSAEV VMFQSTVASW AHDTNITEEN ARRQEEAALV SQEFAEVWGK KAKELYESIW QNFTDSKLRR IIGSIRTLGP ANLPLAQRQQ YNSLLSNMSR IYSTGKVCFP NKTATCWSLD PELTNILASS RSYAKLLFAW EGWHDAVGIP LKPLYQDFTA ISNEAYRQDD FSDTGAFWRS WYESPSFEES LEHIYHQLEP LYLNLHAYVR RALHRRYGDK YVNLRGPIPA HLLGDMWAQS WENIYDMVVP FPDKPNLDVT STMVQKGWNA THMFRVSEEF FTSLGLSPMP PEFWAESMLE KPTDGREVVC HASAWDFYNR KDFRIKQCTR VTMEQLATVH HEMGHVQYYL QYKDLHVSLR RGANPGFHEA IGDVLALSVS TPAHLHKIGL LDHVTNDIES DINYLLKMAL EKIAFLPFGY LVDQWRWGVF SGRTPPSRYN FDWWYLRTKY QGICPPVARN ETHFDAGAKF HIPNVTPYIR YFVSFVLQFQ FHQALCKEAG HQGPLHQCDI YQSAQAGAKL KQVLQAGCSR PWQEVLKDLV GSDALDAKAL LEYFQPVSQW LEEQNQRNGE VLGWPENQWR PPLPDNYPEG IDLETDEAKA DRFVEEYDRT AQVLLNEYAE ANWQYNTNIT IEGSKILLEK STEVSNHTLK YGTRAKTFDV SNFQNSSIKR IIKKLQNLDR AVLPPKELEE YNQILLDMET

TYSLSNICYT NGTCMPLEPD LTNMMATSRK YEELLWAWKS WRDKVGRAIL PFFPKYVEFS
NKIAKLNGYT DAGDSWRSLY ESDNLEQDLE KLYQELQPLY LNLHAYVRRS LHRHYGSEYI
NLDGPIPAHL LGNMWAQTWS NIYDLVAPFP SAPNIDATEA MIKQGWTPRR IFKEADNFFT
SLGLLPVPPE FWNKSMLEKP TDGREVVCHP SAWDFYNGKD FRIKQCTSVN MEDLVIAHHE
MGHIQYFMQY KDLPVTFREG ANPGFHEAIG DIMALSVSTP KHLYSLNLLS TEGSGYEYDI
NFLMKMALDK IAFIPFSYLI DQWRWRVFDG SITKENYNQE WWSLRLKYQG LCPPVPRSQG
DFDPGSKFHV PANVPYVRYF VSFIIQFQFH EALCRAAGHT GPLHKCDIYQ SKEAGKLLAD
AMKLGYSKPW PEAMKLITGQ PNMSASAMMN YFKPLTEWLV TENRRHGETL GWPEYNWAPN
TARAEGSTAE SNRVNFLGLY LEPQQARVGQ

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Ace Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein 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 proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies 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 experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded 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 concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate

Product Details	
	fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. 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. This GPIase activity seems to be crucial for the egg-binding ability of the sperm. {ECO:0000269 PubMed:15665832, ECO:0000269 PubMed:7753170, ECO:0000269 PubMed:8642790}.
Molecular Weight:	142.8 kDa Including tag.
UniProt:	P09470
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 gurantee though.
Comment:	Protein has not been tested for activity yet. 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.

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)

Images

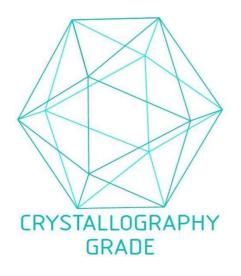


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process