Datasheet for ABIN3092376

EPAS1 Protein (AA 1-870) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	EPAS1
Protein Characteristics:	AA 1-870
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EPAS1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MTADKEKKRS SSERRKEKSR DAARCRRSKE TEVFYELAHE LPLPHSVSSH LDKASIMRLA ISFLRTHKLL SSVCSENESE AEADQQMDNL YLKALEGFIA VVTQDGDMIF LSENISKFMG LTQVELTGHS IFDFTHPCDH EEIRENLSLK NGSGFGKKSK DMSTERDFFM RMKCTVTNRG RTVNLKSATW KVLHCTGQVK VYNNCPPHNS LCGYKEPLLS CLIIMCEPIQ HPSHMDIPLD SKTFLSRHSM DMKFTYCDDR ITELIGYHPE ELLGRSAYEF YHALDSENMT KSHQNLCTKG QVVSGQYRML AKHGGYVWLE TQGTVIYNPR NLQPQCIMCV NYVLSEIEKN DVVFSMDQTE SLFKPHLMAM NSIFDSSGKG AVSEKSNFLF TKLKEEPEEL AQLAPTPGDA IISLDFGNQN FEESSAYGKA ILPPSQPWAT ELRSHSTQSE AGSLPAFTVP QAAAPGSTTP SATSSSSSCS TPNSPEDYYT SLDNDLKIEV IEKLFAMDTE AKDQCSTQTD FNELDLETLA PYIPMDGEDF QLSPICPEER LLAENPQSTP QHCFSAMTNI FQPLAPVAPH SPFLLDKFQQ QLESKKTEPE HRPMSSIFFD AGSKASLPPC CGQASTPLSS MGGRSNTQWP PDPPLHFGPT KWAVGDQRTE FLGAAPLGPP VSPPHVSTFK TRSAKGFGAR GPDVLSPAMV ALSNKLKLKR QLEYEEQAFQ

Product Details

	DLSGGDPPGG STSHLMWKRM KNLRGGSCPL MPDKPLSANV PNDKFTQNPM RGLGHPLRHL PLPQPPSAIS PGENSKSRFP PQCYATQYQD YSLSSAHKVS GMASRLLGPS FESYLLPELT RYDCEVNVPV LGSSTLLQGG DLLRALDQAT **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. • Human EPAS1 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 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

Product Details

Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	EPAS1
Alternative Name:	EPAS1 (EPAS1 Products)
Background:	Transcription factor involved in the induction of oxygen regulated genes. Binds to core DNA sequence 5'-[AG]CGTG-3' within the hypoxia response element (HRE) of target gene promoters. Regulates the vascular endothelial growth factor (VEGF) expression and seems to be implicated in the development of blood vessels and the tubular system of lung. May also play a role in the formation of the endothelium that gives rise to the blood brain barrier. Potent activator of the Tie-2 tyrosine kinase expression. Activation seems to require recruitment of transcriptional coactivators such as CREBPB and probably EP300. Interaction with redox regulatory protein APEX seems to activate CTAD.
Molecular Weight:	97.4 kDa Including tag.
UniProt:	Q99814
Pathways:	Signaling Events mediated by VEGFR1 and VEGFR2, Warburg Effect

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:	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.
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

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

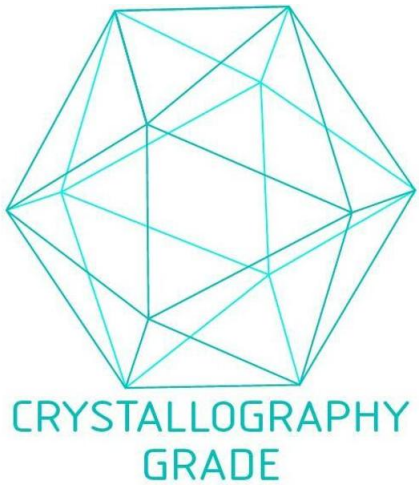

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process