

Datasheet for ABIN7553803
EPAS1 Protein (AA 1-870) (His tag)



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Overview

Quantity:	1 mg
Target:	EPAS1
Protein Characteristics:	AA 1-870
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EPAS1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant EPAS1 Protein expressed in mammalian cells.
Sequence:	MTADKEKKRS SSERRKEKSR DAARCRRSKE TEVIFYELAHE LPLPHSVSSH LDKASIMRLA ISFLRTHKLL SSVCSENESE AEADQQMDNL YLKALEGFIA VVTQDGMIF LSENISKFMG LTQVELTGHS IFDFTHPCDH EEIRENLSLK NGSFGKKS DMSTERDFFM RMKCTVTNNG RTVNLKSATW KVLHCTGQVK VYNNCPPHNS LCGYKEPLLS CLIIMCEPIQ HPSHMDIPLD SKTFLSRHSM DMKFTYCDDR ITELIGYHPE ELLGRSAYEF YHALDSENMT KSHQNLCTKG QVVSQYRML AKHGGYVWLE TQGTVIYNPR NLQPQCIMCV NYVLSEIEKN DVVFSMDQTE SLFKPHLMAM NSIFDSSGKG AVSEKSNFLF TKLKEEPEEL AQLAPTPGDA IISLDFGNQN FEESAYGKA ILPPSQPWAT ELRSHSTQSE AGSLPAFTVP QAAAPGSTTP SATSSSSSSCS TPNSPEDYYT SLDNDLKIEV IEKLFAMDE AKDQCSTQTD FNELDLETLA PYIPMDGEDF QLSPICPEER LLAENPQSTP QHCFSAMTNI FQPLAPVAPH SPFLLDKFQQ QLESKKTEPE HRPMSSIFFD AGSKASLPPC CGQASTPLSS MGGRSNTQWP PDPPLHFGPT KWAVGDQRTE FLGAAPLGPP VSPPHVSTFK TRSAKGFGAR GPDVLS PAMV ALSNKLKLR QLEYEEQAFQ

Product Details

DLSGGDPPGG STSHLMWKRM KNLRGGSCPL MPDKPLSANV PNDKFTQNPM RGLGHPLRHL
PLPQPPSAIS PGENSKSRFP PQCYATQYQD YSLSSAHKVS GMASRLGGS FESYLLPELT
RYDCEVNVV LGSSTLLQGG DLLRALDQAT **Sequence without tag. The proposed Purification-
Tag is based on experiences with the expression system, a different complexity of the
protein could make another tag necessary. In case you have a special request, please
contact us.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: EPAS1

Alternative Name: EPAS1 ([EPAS1 Products](#))

Background: Endothelial PAS domain-containing protein 1 (EPAS-1) (Basic-helix-loop-helix-PAS protein MOP2) (Class E basic helix-loop-helix protein 73) (bHLHe73) (HIF-1-alpha-like factor) (HLF) (Hypoxia-inducible factor 2-alpha) (HIF-2-alpha) (HIF2-alpha) (Member of PAS protein 2) (PAS domain-containing protein 2),FUNCTION: Transcription factor involved in the induction of oxygen regulated genes. Heterodimerizes with ARNT, heterodimer binds to core DNA sequence

Target Details

5'-TACGTG-3' within the hypoxia response element (HRE) of target gene promoters (By similarity). 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 requires recruitment of transcriptional coactivators such as CREBBP and probably EP300. Interaction with redox regulatory protein APEX1 seems to activate CTAD (By similarity). {ECO:0000250, ECO:0000250|UniProtKB:P97481}.

Molecular Weight: 96.5 kDa

UniProt: [Q99814](#)

Pathways: [Signaling Events mediated by VEGFR1 and VEGFR2, Warburg Effect](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months