Datasheet for ABIN7563556

EPAS1 Protein (AA 1-874) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	EPAS1
Protein Characteristics:	AA 1-874
Origin:	Mouse
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 SSELRKEKSR DAARCRRSKE TEVFYELAHE LPLPHSVSSH LDKASIMRLA ISFLRTHKLL SSVCSENESE AEADQQMDNL YLKALEGFIA VVTQDGDMIF LSENISKFMG LTQVELTGHS IFDFTHPCDH EEIRENLTLK NGSGFGKKSK DVSTERDFFM RMKCTVTNRG RTVNLKSATW KVLHCTGQVR VYNNCPPHSS LCGSKEPLLS CLIIMCEPIQ HPSHMDIPLD SKTFLSRHSM DMKFTYCDDR ILELIGYHPE ELLGRSAYEF YHALDSENMT KSHQNLCTKG QVVSGQYRML AKHGGYVWLE TQGTVIYNPR NLQPQCIMCV NYVLSEIEKN DVVFSMDQTE SLFKPHLMAM NSIFDSSDDV AVTEKSNYLF TKLKEEPEEL AQLAPTPGDA IISLDFGSQN FDEPSAYGKA ILPPGQPWVS GLRSHSAQSE SGSLPAFTVP QADTPGNTTP SASSSSSCST PSSPEDYYSS LENPLKIEVI EKLFAMDTEP RDPGSTQTDF SELDLETLAP YIPMDGEDFQ LSPICPEEPL MPESPQPTPQ HCFSTMTSIF QPLTPGATHG PFFLDKYPQQ LESRKTESEH WPMSSIFFDA GSKGSLSPCC GQASTPLSSM GGRSNTQWPP DPPLHFGPTK WPVGDQSAES LGALPVGSSQ LEPPSAPPHV SMFKMRSAKD FGARGPYMMS PAMIALSNKL KLKRQLEYEE

Product Details

	QAFQDTSGGD PPGTSSSHLM WKRMKSLMGG TCPLMPDKTI SANMAPDEFT QKSMRGLGQP LRHLPPPQPP STRSSGENAK TGFPPQCYAS QFQDYGPPGA QKVSGVASRL LGPSFEPYLL PELTRYDCEV NVPVPGSSTL LQGRDLLRAL DQAT **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) (HIF-1-alpha-like factor) (HLF) (mHLF) (HIF-related factor) (HRF) (Hypoxia-inducible factor 2-alpha) (HIF-2-alpha) (HIF2-alpha),FUNCTION: Transcription factor involved in the induction of oxygen regulated genes. Heterodimerizes with ARNT, heterodimer binds to core DNA sequence 5'-TACGTG-3' within the hypoxia response element (HRE) of target gene promoters (PubMed:26245371). Regulates the

Target Details

	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 APEX seems to activate CTAD (By similarity). {ECO:0000250, ECO:0000269|PubMed:26245371}.
Molecular Weight:	96.7 kDa
UniProt:	P97481
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

