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Datasheet for ABIN7554392

Klotho beta Protein (KLB) (AA 1-1044) (His tag)

Overview

Quantity:	1 mg
Target:	Klotho beta (KLB)
Protein Characteristics:	AA 1-1044
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Klotho beta protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat KLB Protein expressed in mammalian cells.
Sequence:	MKPGCAAGSP GNEWIFFSTD EITTRYRNTM SNGGLQRSVI LSALILLRAV TGFSGDGRAI WSKNPNFTPV NESQLFLYDT FPKNFFWGIG TGALQVEGSW KKDGGKPSIW DHFIHTHLKN VSSTNGSSDS YIFLEKDLA LDFIGVSFYQ FSISWPRLFP DGIVTVANAK GLQYYSTLLD ALVLRNIEPI VTLYHWDLPL ALQEKYGGWK NDTIIDIFND YATYCFQMFG DRVKYWITIH NPYLVAWHGY GTGMHAPGEK GNLAAYTVG HNLIKAHASKV WHNYNTHFRP HQKGWLSITL GSHWIEPNRS ENTMDIFKCQ QSMVSVLGWF ANPIHGDGDY PEGMRKKLFS VLPIFSEAEK HEMRGTADFF AFSFGPNNFK PLNTMAKMGQ NVSLNLREAL NWIKLEYNNP RILIAENGWF TDSRVKTEDT TAIYMMKNFL SQVLQAIRLD EIRVFGYTAW SLLDGFQWQD AYTIRRGFLY VDFNSKQKER KPKSSAHYYK QIIRENGFSL KESTPDVQGG FPCDFSWGVT ESVLKPESVA SSPQFSDPHL YVWNATGNRL LHRVEGVRLK TRPAQCTDFV NIKKQLEMLA RMKVTHYRFA LDWASVLPTG NLSAVNRQAL RYYRCVSEK LKLGISAMVT LYYPTHALHG LPEPLLHADG

Product Details

WLNPTAEAF QAYAGLCFQE LGDLVKLWIT INEPNRLSDI YNRSNGNDTYG AAHLLVAHA
LAWRLYDRQF RPSQRGAVSL SLHADWAEPANPYADSHWRA AERFLQFEIA WFAEPLFKTG
DYPAAMREYI ASKHRRGLSS SALPRLTEAE RRLKGTVDV CALNHFTTRF VMHEQLAGSR
YSDSDRIQFL QDITRLSSPT RLAVIPWGVRRLLRWVRRNY GDMDIYITAS GIDDQALEDD
RLRKYYLGKY LQEVKAYLI DKVRIKGYA FKLAEKSKP RFGFFTSDFK AKSSIQFYNK
VISSRGFPFE NSSSRCSQTQ ENTECTVCLF LVQKKPLIFL GCCFFSTLVL LLSIAIFQRQ
KRRKFWKAKN LQHIPLKKGK RVVS **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.**

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, Western Blot

Grade:

custom-made

Target Details

Target:

Klotho beta (KLB)

Alternative Name:

KLB ([KLB Products](#))

Background:

Beta-klotho (BKL) (BetaKlotho) (Klotho beta-like protein),FUNCTION: Contributes to the transcriptional repression of cholesterol 7-alpha-hydroxylase (CYP7A1), the rate-limiting enzyme in bile acid synthesis. Probably inactive as a glycosidase. Increases the ability of FGFR1 and FGFR4 to bind FGF21 (By similarity). {ECO:0000250}.

Target Details

Molecular Weight: 119.8 kDa

UniProt: [Q86Z14](#)

Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Growth Factor Binding](#)

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.

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