

Datasheet for ABIN7564912

Klotho beta Protein (KLB) (AA 1-1043) (His tag)



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Overview

Quantity:	1 mg
Target:	Klotho beta (KLB)
Protein Characteristics:	AA 1-1043
Origin:	Mouse
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 mammalien cells.
Sequence:	<p>MKTGCAAGSP GNEWIFFSSD ERNTRSRKTM SNRALQRSVAV LSAFVLLRAV TGFSGDGKAI WDKKQYVSPV NPSQLFLYDT FPKNFSWVG V TGA FQVEGSW KTDGRGPSIW DRYVYSHLRG VNGTDRSTDS YIFLEKDLLA LDFLGVSYFYQ FSISWPRLFP NGTVAAVNAQ GLRYYRALLD SLVLRNIEPI VTLYHWDLPL TLQEEYGGWK NATMIDLFND YATYCFQTFG DRVKYWITIH NPYLVAVWHGF GTGMHAPGEK GNLTAVYTVG HNLKAHASKV WHNYDKNFRP HQKGWLSITL GSHWIEPNRT DNMEDVINCQ HSMSSVLGWF ANPIHGDGDY PEFMKTGAMI PEFSEAEKEE VRGTADFFAF SFGPNNFRPS NTVVKMGQNV SLNLRQVLNW IKLEYDDPQI LISENGWFTD SYIKTEDTTA IYMMKNFLNQ VLQAIKFDEI RVFGYTAWTL LDGFEWQDAY TTRRGLFYVD FNSEQKERKP KSSAHYYKQI IQDNGFPLKE STPDMKGRFP CDFSWGVTES VLKPEFTVSS PQFTDPHLYV WNV TGNRLLY RVEGVRLKTR PSQCTDYVSI KKRVEMLAKM KVTHYQFALD WTSILPTGNL SKVNRQVRLRY YRCVVSEGLK LGVFPMVTLY HPTHSHLGLP LPLLSSGGWL</p>

Product Details

NMNTAKAFQD YAELCFRELG DLVKLWITIN EPNRLSDMYN RTSNDTYRAA HNLMIHAHQV
WHLVDRQYRP VQHGAVSLSL HCDWAEPANP FVDSHWKAAE RFLQFEIAWF ADPLFKTGDY
PSVMKEYIAS KNQRGLSSSV LPRFTAKESR LVKGTVDYFA LNHFTTRFVI HKQLNTNRSV
ADRDVQFLQD ITRLSSPSRL AVTPWGVKRL LAWIRRNRYR RDIYITANGI DDLALEDQI
RKYYLEKYVQ EALKAYLIDK VKIKGYAFK LTEEKSKPRF GFFTSDFRAK SSVQFYSLI
SSSGLPAENR SPACGQPAED TDCTICSFLV EKKPLIFFGC CFISTLAVLL SITVFHHQKR
RKFQKARNLQ NIPLKKGHSR VFS **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. {ECO:0000269|PubMed:16075061,

Target Details

ECO:0000269|PubMed:17452648}.

Molecular Weight: 120.2 kDa

UniProt: [Q99N32](#)

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