

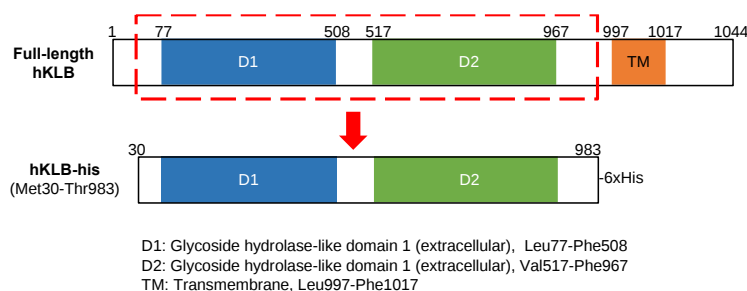


Human β -Klotho (Human sKLB)

Origin:	Recombinant	Cat. No.:	41C071
Tag:	C-terminal 6xHis	Size:	0.1 mg
Source:	Human Embryonic Kidney Cells 293	Purity:	>95%
Synonyms:	Klotho β , KLB, BKL	Species:	Human

Description

Expressed in HEK293 cells with total 960 AA (30-983 AA). Mw: 110.2 KDa (calculated). C-terminal 6xHis-tag, 6 extra AA (highlighted).



Recombinant antigen for research use or manufacturing only.

Introduction to the Molecule

Human beta-klotho (β -Klotho) is a single-pass transmembrane protein that belongs to the klotho family, which also includes α -klotho and γ -klotho. β -Klotho is encoded by the KLB gene and is primarily expressed in the liver, white adipose tissue, brain, and other organs. It plays a crucial role in the activation of fibroblast growth factor (FGF) signaling pathways, specifically FGF19 and FGF21, by forming a complex with FGF receptors (FGFRs). Human beta-klotho is a multifunctional protein that plays a critical role in metabolism, anti-aging processes, tumor suppression, and neuroprotection by modulating FGF signaling pathways.

Amino Acid Sequence

MSNGGLQRSVILSALILLRAVTGFSGDGRAIWSKNPNFTPVNESQLFLYDTFPKNFFWGIGTGALQ
VEGSWKKDGGKPSIWDHFIHHLKKNVSSTNGSSDSYIFLEKDLSALDFIGVSFYQFSISWPRLFPD
GIVTVANAKGLQYYSTLLDALVLRNIEPIVTLYHWDLPALQEKYGGWKNDTIIDIFNDYATYCFQM
FGDRVKYWITIHNPYLVAVHGYGTGMHAPGEKGNLAAVYTVGHNLIAHASKVWHNYNTHFRPHQ
KGWLSITLGSHWIEPNRSENTMDIFKCQQSMVSVLGWFANPIHGDGDYPEGMRKKLFSVLPFSE
AEKHEMRGTADFFAFSFGPNNFKPLNTMAKMGQNVSLNLREALNWIKLEYNNPRILIAENGWFTDS
RVKTEDTTAIYMMKNFLSQVLQAIRLDEIRVFGYTAWSLLDGFEWQDAYTIRRLGYVDFNSKQKE
RKPSSAHYYKQIIRENGFSLKESTPDVQGGQFPCDFSWGVTESVLPKESVASSPQFSDPHLYVWN
ATGNRLLHRVEGVRLKTRPAQCTDFVNIKKQLEMLARMKVTHYRFALDWASVLPNGNSAVNRQA
LRYRCVVSEGLKLGISAMVTLYYPHTAHLGLPEPLHADGWLNPSTAEAFQAYAGLCFQELGDLVK
LWITINEPNRLSDIYNRSGNDTYGAAHNLLVAHALAWRLYDRQFRPSQRGAVSLSLHADWAEPAN





PYADSHWRAAERFLQFEIAWFAEPLFKTGDYPAAMREYIASKHRRGLSSSALPRLTEAERRLLKGTVD
DFCALNHFTTRFVMHEQLAGSRYDSRDIQFLQDITRLSSPTRLAVIPWGVRKLLRWVRRNYGDM
DIYITASGIDDQALEDDRLRKYYLGKYLQEVLKAYLIDKVRIKGYAFKLAEEKSKPRFGFFTSDFKAK
SSIQFYNKVISSRGFPFENSSSRCSQTQENT**HHHHHH**

Applications

Cell culture, animal studies, ELISA and Western blotting.

Endotoxin Level

<0.2 EU/ug

Formulation

Lyophilized at 1 mg/mL in NaCl 300mM, KCl 2.7mM, Na₂HPO₄ 10mM, KH₂PO₄ 1.8mM, pH 7.4.

Storage

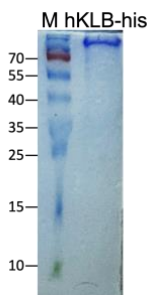
Store lyophilized protein at -20°C. Aliquot reconstituted protein and store at -80°C. Avoid repeated freezing/thawing cycles.

Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

SDS-PAGE Gel



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