

## Recombinant Human KLB, Fc-tagged

Cat. No. KLB-537H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	The extracellular domain of human $\beta$ Klotho (aa 1-996) is fused at the C-terminus to the Fc portion of human IgG1.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	1-996 a.a.
<b>Description</b>	$\beta$ Klotho (KLB) induces ERK1/2 phosphorylation in response to FGF19 treatment and significantly increases the interactions between FGF19 and FGFR4. It is a cofactor for the interaction of FGF21 with FGF receptor 1c in adipocytes, which allows FGF21 to stimulate GLUT1 expression, upregulating adipocyte insulin-dependent glucose uptake. $\beta$ Klotho contributes to the transcriptional repression of cholesterol 7-alpha-hydroxylase (CYP7A1), the rate-limiting enzyme in bile acid synthesis.
<b>Form</b>	Liquid. 0.2 $\mu$ m-filtered solution in PBS.
<b>Molecular Mass</b>	~180kDa (SDS-PAGE)
<b>Purity</b>	$\geq$ 95% (SDS-PAGE)
<b>Stability</b>	Working aliquots are stable for up to 3 months when stored at -20°C.
<b>Storage</b>	Short Term Storage: +4°C; Long Term Storage: -20°C. After opening, prepare

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aliquots and store at -20°C. Avoid freeze/thaw cycles.

**Concentration** 0.05mg/ml

## GENE INFORMATION

**Gene Name** [KLB klotho beta \[ Homo sapiens \]](#)

**Official Symbol** KLB

**Synonyms** KLB; klotho beta; beta-klotho; betaKlotho; klotho beta like; klotho beta-like protein; BKL; MGC142213;

**Gene ID** [152831](#)

**mRNA Refseq** [NM\\_175737](#)

**Protein Refseq** [NP\\_783864](#)

**MIM** [611135](#)

**UniProt ID** [Q86Z14](#)

**Chromosome Location** 4p14

**Pathway** Downstream signaling of activated FGFR, organism-specific biosystem; FGF signaling pathway, organism-specific biosystem; FGFR ligand binding and activation, organism-specific biosystem; FRS2-mediated cascade, organism-specific biosystem; IRS-mediated signalling, organism-specific biosystem; IRS-related events, organism-specific biosystem; Insulin receptor signalling cascade, organism-specific biosystem;

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**Function**

catalytic activity; cation binding; fibroblast growth factor binding; hydrolase activity, hydrolyzing O-glycosyl compounds;

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